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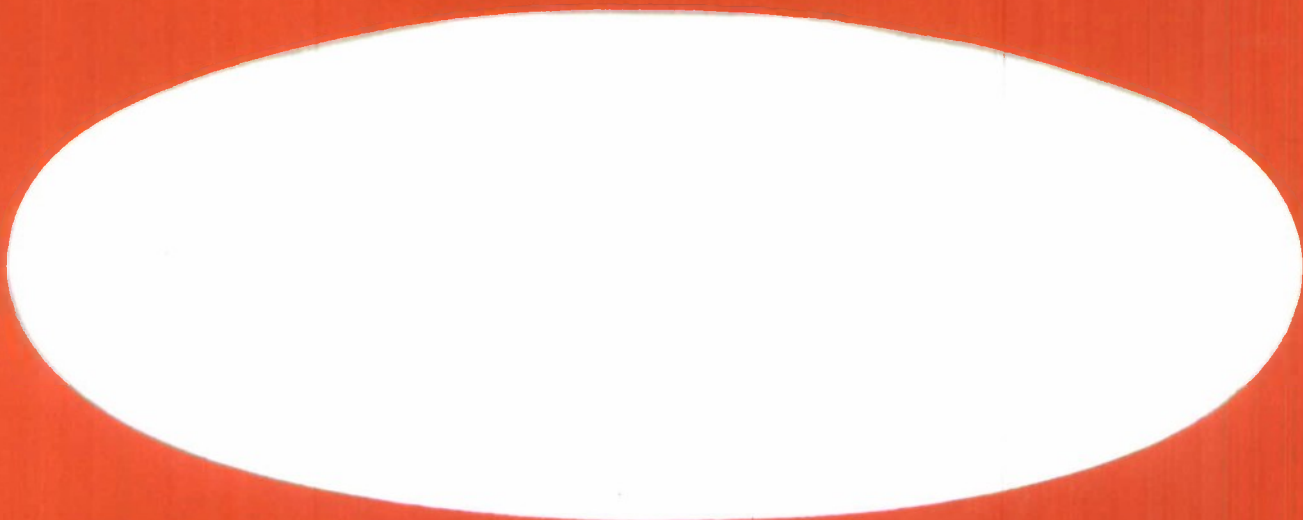
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NTIS/PS-76/0267

3911AN

**Protective Clothing**  
**Part 1. Arctic and Tropical Environments**  
**A Bibliography with Abstracts**

**Search period covered**

1964 - February 1976

**NTIS** National Technical Information Service  
U.S. DEPARTMENT OF COMMERCE  
Springfield, Virginia 22161



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<b>BIBLIOGRAPHIC DATA SHEET</b>	1. Report No.	2.	3. Recipient's Accession No. NTIS/PS-76/0267
4. Title and Subtitle Protective Clothing. Part 1. Arctic and Tropical Environments (A Bibliography with Abstracts)			5. Report Date April, 1976
7. Editor: Mary E. Young			6. 8. Performing Organization Rept. No.
9. Performing Organization Name and Address National Technical Information Service 5285 Port Royal Road Springfield, Virginia 22161			10. Project/Task/Work Unit No.
12. Sponsoring Organization Name and Address  Same			11. Contract/Grant No.
15. Supplementary Notes			13. Type of Report & Period Covered 1964 - Feb., 1976
16. Abstracts  Reports on clothing for environmental protection in extreme climates are cited, including reports on especially developed fabrics and textiles, insulating methods, physiological and psychological responses of users, mobility and dexterity of wearers, care of specialized clothing, and human factors involved. (Contains 80 abstracts)			14.
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## SAMPLE ENTRY

Title \_\_\_\_\_ Industry, Innovation and the Municipal Market  
Corporate Author \_\_\_\_\_ Franklin Inst. Research Labs., Philadelphia, Pa. (142 925)

Final rpt.

AUTHOR: Blair, John F. Jr.

C1872L3 FLD: 5C, 96\*, 86K USGRDR 7324

Report Date \_\_\_\_\_ 15 Oct 73 103p\*

Pages in Report \_\_\_\_\_  
REPT NO: FIRL-F-C3431  
PROJECT: EDA-99-6-09281  
MONITOR: EDA-73-046

Abstract or  
Technical Report  
Summary \_\_\_\_\_

ABSTRACT: The summary report is made on work done under the auspices of the Economic Development Administration and funded through The Experimental Technology Incentives Program (ETIP). It delineates the form and content of the policies and programs required to develop the municipal local government market into a force for technological innovation and economic development. In addition to this document, a series of sixteen background papers is on file that deals in considerable depth with the more important aspects of the study. This supplementary documentation is referenced in footnotes throughout the text of the summary volume.

Key Words \_\_\_\_\_

DESCRIPTORS: (\*Industrial engineering, \*Urban planning), (\*Public administration, \*Urban development), Procurement, Reviews, Optimization, Economic development, Industrial relations, Marketing, Productivity, Systems engineering, Local government, Policies, Recommendations, Pennsylvania

IDENTIFIERS: Technological development, Innovations, Philadelphia (Pennsylvania), EDA

Order Number \_\_\_\_\_ COM-73-11748/3 NTIS Prices: PC\$4.25/MF \$1.45

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A Human Factors Evaluation of Cold Weather Headgear

Army Natick Development Center Mass Clothing Equipment and Materials  
Engineering Lab (408902)

Technical rept.

AUTHOR: Lockhart, John M., Bense, Carolyn K.

C5712E1 FLD: 15E, 5E, 95D, 74 USGRDR7603

Oct 75 102p

REPT NO: CEMEL-150

PROJECT: DA-1-T-762716-AH-70

TASK: 1-T-762716-AH-7002

MONITOR: NDC-TR75-104-CEMEL

ABSTRACT: A human factors evaluation of the standard and experimental insulating caps and of the standard cold weather headgear system (cap plus arctic hood and fur ruff with and without the cold weather face mask) and the experimental cold weather headgear system (cap, face piece, and integrating collar) was made in a series of investigations: a visual field investigation, a personal and equipment compatibility test, and cold-wet and cold-dry chamber tests. Results indicated (a) superiority of the experimental system over the standard system only with respect to the size of the field of vision and rotation head movements and (b) standard system superiority over the experimental system for donning speed, ventral-dorsal head movements and thermal protection, comfort, and preference during cold-dry exposure. (Author)

DESCRIPTORS: \*Headgear, \*Cold weather, \*Human factors engineering, Protective clothing, Environmental protection, Cold regions, Moisture, Protective clothing, Compatibility, Army research, Goggles, Humidity, Thermal stresses, Protective masks, Hoods, Collars

IDENTIFIERS: Comfort, NTISDODXA, NTISDODA

AD-A018 237/8ST NTIS Prices: PC\$5.50/MF\$2.25



Heat and Moisture Transfer in Clothing Systems. Part 2. Theoretical Consideration of the Effect of some Variables on Thermal Conductivity

Defence Research Establishment Ottawa (Ontario) (404576)

Technical note

AUTHOR: Crow, Rita M.

C5631H2 FLD: 6Q, 95D, 74E USGRDR7602

Oct 75 24p

REPT NO: DREO-TN-75-19

MONITOR: 18

Abstract in French. See also Part 1, AD-A003 837.

ABSTRACT: The theoretical effect of several variables on the total thermal conductivity of a fibrous system was determined using derived mathematical relationships. The variables examined included percentage fibre content, fibre arrangement, environmental temperature, water, ice and water vapor diffusion. It was found that the presence of water or ice greatly increases thermal conductivity, and that at practical fibre contents, minimal thermal conductivity is attained when the fibres are lying in series to the direction of heat flow. (Author)

DESCRIPTORS: \*Protective clothing, \*Thermal conductivity, Heat transfer, Moisture, Cold weather operations, Fibers, Textiles, Alignment, Volume, Heat transmission, Directional, Mathematical models, Water vapor, Gradients, Ice, Water, Temperature gradients, Thermal insulation, Vapor pressure, Thermal diffusion, Equations, Arctic regions, Canada

IDENTIFIERS: NTISDODXA, NTISDODSD

AD-A017 650/3ST NTIS Prices: PC\$3.50/MF\$2.25



## Insulated Gloves

Department of the Army Washington D C (109900)

### Patent

AUTHOR: Madnick, Herman

C5233K2 FLD: 15E, 90 USGRDR7522

Filed 27 Aug 64, patented 23 Aug 66 2p

REPT NO: PAT-APPL-392 664, PATENT-3 267 486

MONITOR: 18

Government-owned invention available for licensing. Copy of patent available Commissioner of Patents, Washington, D.C. 20231 \$0.50.

ABSTRACT: The patent concerns a partially insulated glove to protect the hand of the user in cold weather while permitting dexterous use. The glove comprises a front portion, a back portion, and fingers and a thumb, a single layer of polyester insulating material covering only the inner surface of the back portion, the back of the thumb, and the entire length of the back and side portions of the fingers, a lining covering the insulating material, and means securing the lining and the insulating material to the glove.

DESCRIPTORS: \*Patents, \*Gloves, \*Thermal insulation, Protective clothing, Thermal insulation, Cold weather operations, Polyester fibers, Textiles

IDENTIFIERS: PAT-CL-2-164, NTISGPA

AD-D001 002/5ST NTIS Price: Not available NTIS



# Prototype Cold Weather Headwear

Synsis Inc Los Angeles Calif\*Army Natick Labs., Mass. Clothing,  
Equipment and Materials Engineering Lab. (389556)

Final rept. Oct 73-Oct 74

AUTHOR: Mangelsdorf, David, Goldberg, Marvin, Santschi, Heidi

C4961F3 FLD: 6Q, 15E, 95D, 74E USGRDR7518

Oct 74 73

CONTRACT: DAAK03-74-C-0030

PROJECT: DA-1-T-762713-DJ-40

TASK: 1-T-762713-DJ-4001

MONITOR: CE/MEL-137

ABSTRACT: Prototypes of an improved cold weather headgear ensemble have been developed which should provide protection from cold, wind, blowing snow, and frostbite in environments to -65F and 35 miles per hour wind velocities. The ensemble provides physical compatibility with military clothing and equipment and does not occlude the field of vision. The design covers the face, head and neck and is provided with features that permit achieving varying degrees of protection in response to varying severity of the environmental threat. The ensemble and its elements is composed largely of a helanca/urethane foam/cotton jersey laminate which provides excellent insulating properties, sound transparency, and permeability.

DESCRIPTORS: \*Protective clothing, \*Headgear, \*Cold weather operations, Protection, Frostbite, Wind, Cold weather tests, Snow, Wounds and injuries, Compatibility, Clothing, Urethanes, Permeability

IDENTIFIERS: NTISDODA

AD-A012 314/1ST NTIS Prices: PC\$4.25/MF\$2.25



The Effects of Personal Protective Equipment Upon the Arm-Reach Capability of USAF Pilots

Webb Associates Inc Yellow Springs Ohio\*Aerospace Medical Research Lab., Wright-Patterson AFB, Ohio. (401286)

AUTHOR: Alexander, Milton, Laubach, Lloyd  
C4891E4 FLD: 5E, 1C, 74E, 95D, 51C USGRDR7517

Jul 73 10p

CONTRACT: F33615-72-C-1006

PROJECT: AF-7184

TASK: 718408

MONITOR: AMRL-TR-72-93

Pub. in Proceedings of the Interagency Conference on Management and Technology in the Crew System Design Process, Los Angeles, on 12-14 September 1972.

ABSTRACT: The lack of published arm-reach data on Air Force flight personnel in actual cockpit situations presents manifest difficulties to the cockpit layout specialist. This paper discusses the results of a study to determine the arm-reach capabilities of aircrewmembers wearing heavy winter flight clothing, survival equipment, and restraint harnesses. The sample consisted of 16 male subjects (currently active Air Defense Command pilots). The subjects were (pilots) selected to approximate closely the various height-weight categories in the ADC flying population. A specially designed apparatus was constructed to measure arm-reach capability. Each subject was measured under four conditions. The results of the study indicate that there are significant differences in arm-reach capability of pilots while in the shirt-sleeved and maximum flying assembly conditions throughout most of the spatial envelope.

DESCRIPTORS: \*Human factors engineering, \*Cockpits, \*Pilots, Flight clothing, Air Force equipment, Flight crews, Winter, Survival equipment, Simulation, Test methods, Test facilities, Anthropometry

IDENTIFIERS: \*Arm reach capabilities, NTISDODAF

AD-A011 580/8ST NTIS Prices: PC\$3.25/MF\$2.25



Comparative Characteristics of the Main Types of Climatic Clothing of  
Vostok Station Personnel

Army Foreign Science and Technology Center Charlottesville Va (038300)

AUTHOR: Makarov, N. I.

C4341F4 FLD: 6Q, 15E, 95D USGRDR7509

7 May 74 10p

REPT NO: FSTC-HT-23-0764-74

MONITOR: 18

Unedited trans. of Arkticheskii i Antarkticheskii  
Nauchno-Issledovatel'skii Institut. Trudy (USSR) v299 p231-235 1971.

ABSTRACT: Research was carried out on various types of clothing used in the Antarctic. The basic KAE suit made of camel hair was found to be the most suitable in extreme weather conditions. The protective properties of clothing can be improved by increasing the amount of air under the clothing.

DESCRIPTORS: \*Protective clothing, \*Antarctic regions, Translations, Protection, Synthetic materials, USSR

IDENTIFIERS: NTISDODA

AD/A-005 876/8ST NTIS Prices: PC\$3.25/MF\$2.25



Thermal Performance of Permeable Versus Impermeable Hoods Worn by Men  
in CB Ensemble Working in a Tropical Environment

Edgewood Arsenal Aberdeen Proving Ground Md (401007)

Technical rept.

AUTHOR: Johnson, Arthur T.

C4283L3 FLD: 6Q, 95D USGRDR7508

Jan 75 31p

REPT NO: ED-TR-74081

PROJECT: DA-1-W-762710-A-095

MONITOR: 18

ABSTRACT: A hood fabricated from twill cloth, MIL-C-81280B, with air permeability of 175 cu ft/sq ft/min of 0.5 inch of water was evaluated by comparison with the standard M6A2 impermeable hood and no hooded condition. Men walked for 6.5 miles at an average rate of 2.5 mph in a hot environment with average wet-bulb globe temperature between 81 and 87F. Twelve replications were performed. The permeable hood was found to be statistically different from either impermeable hood or no hood. Very little operational advantage can be gained, however, by depending solely on the impermeable hood to remove excess heat.

DESCRIPTORS: \*Protective clothing, \*Hoods, \*Heat stress (Physiology), Permeability, Performance (Engineering), Human factors engineering

IDENTIFIERS: NTISDODA

AD/A-005 613/5ST NTIS Prices: PC\$3.75/MF\$2.25



Heat and Moisture Transfer in Clothing Systems. Part 1. Transfer Through Materials, A Literature Review

Defence Research Establishment Ottawa (Ontario) (404576)

Technical note

AUTHOR: Crow, Rita M.

C4134A2 FLD: 6Q, 15E, 74E, 95D USGRDR7506

25 Sep 74 25p

REPT NO: DREO-TN-74-27

MONITOR: 18

ABSTRACT: The complexities of the effect of variables, in particular moisture, on thermal insulation of cold weather clothing are introduced. A literature review of the methods for measuring heat transfer, moisture diffusion and combined heat and moisture transfer is presented. The effects of variables on heat transfer and moisture diffusion are reviewed in detail. The theoretical equation for combined heat and moisture transfer is derived, and compared to experimental results of various workers.

DESCRIPTORS: \*Protective clothing, \*Cold weather operations, \*Thermal diffusion, Heat transfer, Canada

IDENTIFIERS: NTISDODSD

AD/A-003 837/2ST NTIS Prices: PC\$3.25/MF\$2.25



The Use of Conductive Rubber in Electrically Heated Handwear and Footwear

Defence Research Establishment Ottawa (Ontario) (404576)

Technical note

AUTHOR: Collyer, John C., Clark, John R.

C4133F2 FLD: 6Q, 15E, 74E, 95D USGRDR7506

23 Sep 74 36p

REPT NO: DREO-TN-74-26

MONITOR: 18

ABSTRACT: The feasibility of using electrically conductive rubber as a heating element for gloves was established. Tests were carried out in the DREO cold chamber using experimental conductive rubber elements over a temperature range from 0F down to -30F. Finger and hand temperatures of test subjects were substantially higher than those of subjects wearing the Canadian Forces cold weather mitten system. Footwear tests did not give any conclusive results due to higher skin temperatures being maintained throughout the test procedure.

DESCRIPTORS: \*Boots, \*Gloves, \*Protective clothing, \*Heating elements, Rubber, Electric conductors, Test methods, Cold weather tests, Arctic regions, Canada

IDENTIFIERS: NTISDODSD

AD/A-003 809/1ST NTIS Prices: PC\$3.75/MF\$2.25



# Production of Electrically Heated Gloves

Uniroyal Consumer Products Naugatuck Conn\*Army Natick Labs., Mass.  
Clothing, Equipment and Materials Engineering Lab. (409051)

Technical rept. Jun 73-Sep 74

AUTHOR: VanTwisk, Richard J.

C4074C3 FLD: 6Q, 15E, 95D, 74E USGRDR7505

Sep 74 57p

CONTRACT: DAAG17-73-C-0242

PROJECT: DA-1-T-764713-DL-40

TASK: 1-T-764713-DL-4014

MONITOR: CE/MEL-135

ABSTRACT: The report describes two methods of fabricating electrically heated gloves; one using a patented hand constructed unique method and the other being a low cost easily reproduceable automated technique. Both of these methods use wire as the heating elements.

DESCRIPTORS: \*Protective clothing, \*Gloves, \*Arctic regions, Fabrication, Heating elements, Electrical equipment, Wire, Leather, Thermal insulation

IDENTIFIERS: NTISDODA

AD/A-003 327/4ST NTIS Prices: PC\$3.75/MF\$2.25



## Cold Physiologic Studies

Aerospace Medical Research Lab Wright-Patterson AFB Ohio (009850)

AUTHOR: Veghte, James H.

C3954B2 FLD: 6S, 57W USGRDR7503

1973 9p

REPT NO: AMRL-TR-74-13

MONITOR: 18

Presented at AGARD Course on Cold Weather Survival, 6-14 Apr 73 (Norway).

Availability: Pub. in The Physiology of Cold Weather Survival, p69-76 Apr 73, Rept no. AGARD-R-620, AD-784 268.

ABSTRACT: A number of research studies have been discussed in which physiological responses have been monitored. The importance of knowledge, common sense, and sufficient equipment cannot be overstated. Cold, as a stressor, can be overcome if aircrew members are educated that there usually is sufficient time in a survival situation to meet any cold stress. The importance of extremity protection, dangers of CO<sub>2</sub> or CO poisoning in snow shelters, and loss of insulation because of moisture accumulation are paramount.

DESCRIPTORS: \*Stress(Physiology), Cold regions, Exposure(Physiology), Cold weather, Arctic regions, Extremities, Body temperature, Blood circulation, Protective clothing, Underwear, Tolerances(Physiology), Infrared scanning, Surfaces, Metal plates, Respiration, Flight crews, Pilots, Survival(Personnel)

IDENTIFIERS: \*Cold tolerance, Cold weather clothing, NTISDODAF

AD/A-001 779/8ST NTIS Prices: PC\$3.25/MF\$2.25



# The Physiology of Cold Weather Survival

Advisory Group for Aerospace Research and Development, Paris (France).

AUTHOR: Borg, A., Veghte, J. H.

C3935D2 FLD: 6S, 57W STAR1223

Jun 74 99p

REPT NO: AGARD-R-620

MONITOR: 18

DESCRIPTORS: \*Cold tolerance, \*Emergency life sustaining systems,  
\*Human body, \*Physiological responses, Aerospace medicine, Arctic  
regions, Protective clothing, Shelters, Survival, Thermoregulation

IDENTIFIERS: NTISNASA

N74-33534/OSL NTIS Prices: PC\$4.75/MF\$2.25

No abstract available



# Effect of Arctic Clothing on a Short-Duration Task

Defence and Civil Inst. of Environmental Medicine, Downsview  
(Ontario). Biosciences Div.

AUTHOR: Allen, C. L., Livingstone, S. D.

C3813C2 FLD: 6Q, 95D STAR1222

Oct 73 9p

REPT NO: DCIEM-73-R-974

MONITOR: 18

ABSTRACT: The performance of individuals participating in a short duration task while wearing Arctic clothing was compared to their performance while wearing light combat clothing. It was found that although there was an increase in the time to complete the task while wearing the Arctic clothing there was no difference in the energy cost. (Author)

DESCRIPTORS: \*Arctic regions, \*Combat, \*Human performance, \*Protective clothing, Caloric requirements, Heart rate, Time dependence

IDENTIFIERS: NTISNASA

N74-32554/9SL NTIS Prices: PC\$3.25/MF\$2.25



Evaluation of Nomex, and Polypropylene Blend-Type Cold Weather Underwear

Naval Air Development Center Warminster Pa Crew Systems Dept (406610 )

Final rept.

AUTHOR: Jencks, Craig

C3765J1 FLD: 15E, 74E USGRDR7426

25 Mar 74 30p

REPT NO: NADC-74068-40

MONITOR: 18

ABSTRACT: A Nomex and a Polypropylene Blend-Type Cold Weather Underwear have been operationally evaluated in conjunction with the CWU-33/P Anti-Exposure Ventilated Wet Suit for the purpose of determining whether either garment provides better overall performance characteristics than the standard fleet-issued aviation polyvinylchloride underwear. A replacement for the polyvinylchloride underwear is sought because of the underwear's unsatisfactory shrinkage with high temperature shipboard laundering. Concluding evaluation analysis indicates that both evaluated underwear types are nearly identical to each other in all respects with both being preferred over the standard polyvinylchloride underwear. The Nomex underwear has been selected for Fleet introduction over the Polypropylene blend-type underwear, based on its greater fire resistant properties and logistic availability. (Modified author abstract)

DESCRIPTORS: \*Underwear, \*Test methods, \*Protective clothing, Polypropylene, Polyvinyl chloride, Exposure suits, Flight crews, Laundry operations, Fire resistant materials, Thermal insulation, Nylon, Compatibility, Acceptability

IDENTIFIERS: Evaluation, Nomex polymers, NTISDODN

AD-787 638/6SL NTIS Prices: PC\$3.75/MF\$2.25



# Controlled Temperature Garment

Department of the Navy Washington D C (110050)

## Patent

AUTHOR: Laxo, Darryl E.

C3735G2 FLD: 6Q, 95D, 90D USGRDR7426

Filed 28 Jul 71, patented 3 Jul 73 6p

REPT NO: PAT-APPL-166 918, PATENT-3 743 012

MONITOR: 18

Government-owned invention available for licensing. Copy of patent available Commissioner of Patents, Washington, D.C. 20231 \$0.50.

**ABSTRACT:** The patent relates to a controlled temperature garment using the counter flow heat exchanger principle to maintain an equal temperature distribution along the inner surface of the garment. Three layers of material are bonded together in such a manner as to provide flow channels along the garment. The garment comprises distribution, turning and collection chambers at each end of the channels; and a fluid discharge and collecting manifold to control the flow of the temperature controlling fluid.

**DESCRIPTORS:** \*Patents, \*Protective clothing, Cold weather, Temperature control, Human factors engineering

**IDENTIFIERS:** PAT-CL-165-39, NTISGPN

AD-165 005/OSL NTIS Price: Not available NTIS



Cold: Physiology, Protection and Survival

Advisory Group for Aerospace Research and Development Paris (France)  
(400043)

AUTHOR: Lorentzen, Fridtjov Vogt

C3685E1 FLD: 6G, 6S, 57W\* USGRDR7425

Aug 74 44p\*

REPT NO: AGARD-ograph-194

MONITOR: 18

NATO furnished.

ABSTRACT: Survival in the cold regions of the world involves a basic understanding of physiology, practical experience, and a thorough knowledge of survival equipment and use of natural materials. This paper summarizes knowledge in these areas as well as a lifetime of experience in northern regions of the world, primarily Norway, and knowledge gained on expeditions such as in the Himalayan mountains. It is a practical paper and if one assimilates its contents then survival in a cold environment is enhanced.

DESCRIPTORS: \*Stress(Physiology), \*Cold weather, \*Norway, Personnel selection, Physical fitness, Response(Biology), France, Protective clothing, Low temperature, Nutrition, Hygiene, Body temperature, Radiation effects, Survival(Personnel), Adaptation(Physiology), Acclimatization, Wounds and injuries

IDENTIFIERS: \*Cold weather survival, NTISDODSD

AD-787 011/6ST NTIS Prices: PC\$3.75/NF\$2.25



Some Results of Physiological-Hygienic Investigations of Polar Clothing in Antarctic Conditions

Army Foreign Science and Technology Center Charlottesville Va (038300)

AUTHOR: Palyanov, O. I.

C3681E1 FLD: 6Q USGRDR7425

27 Apr 74 8p

REPT NO: FSTC-HT-23-0760-74

MONITOR: 18

Trans. of Sovetskaya Antarkticheskaya Ekspeditsiya. Informatsionnyi Byulleten (USSR) n81 p111-114 1971.

ABSTRACT: Research was carried out into clothing worn by members of Antarctic expeditions. Tests were conducted on three types of clothing to test their heat-reflecting properties. The K.A.E. (complex Antarctic expedition) suit combined with a leather suit, is best, although it is cumbersome and quite heavy.

DESCRIPTORS: \*Cold regions, \*Clothing, \*Protective clothing, Thermal insulation, Hygiene, Physiology, Antarctic regions, USSR, Translations, Heat, Body temperature, Leather

IDENTIFIERS: NTISDODA

AD-786 819/3ST NTIS Prices: PC\$3.25/MF\$2.25



Evaluation of Survival Suits for the Use of the Crews of the Great Lakes Carriers

Battelle Columbus Labs Ohio\*Coast Guard, Washington, D.C. (407080)

Final rept. Oct 72-Apr 73

AUTHOR: Riegel, P. S., Caudy, D. W., Tierney, J. M., Trainer, T. M.

C3551A1 FLD: 6G, 95D, 47 USGRDR7423

Oct 73 98p

CONTRACT: DOT-CG-23223-A

MONITOR: USCG-D-14-73-A

See also AD-768 678.

ABSTRACT: Survival in cold water is very short, making abandon-ship processes often fatal due to immersion hypothermia. Report covers development of an evaluation and ranking scheme for survival suits to be used under winter conditions. Four commercially available suits (Imperial Survival Suit, Imperial Type H Deck Suit, QD-1 Anti-Exposure Garment, and Empress Suit) were evaluated. Suits ranked as stated, in decreasing order of excellence for abandon-ship use. Suits were issued to crews of Great Lakes carriers, and opinions of crew members were obtained. Criteria were developed for an optimum survival suit, and a scenario of the abandon-ship process was developed for assessing probability of survival during ship abandonment. An informal field evaluation of suits was performed. (Author)

DESCRIPTORS: \*Survival equipment, \*Sea rescues, Survival(Personnel), Cold weather, Immersion, Great Lakes, Ships

IDENTIFIERS: \*Survival clothing, Carriers, Evaluation, NTISDODCG

AD-785 465/6 NTIS Prices: PC\$4.00/MF\$2.25



New Things in Technology Open-Hearth Furnace 'Doctors'

Foreign Technology Div Wright-Patterson AFB Ohio (141600)

AUTHOR: Novikova, V.

C3443E2 FLD: 6Q, 94E USGRDR7422

11 Jul 74 5p

REPT NO: FTD-HT-23-1743-74

PROJECT: FTD-T74-03-01

MONITOR: 18

Edited trans. of Izvestiya (USSR) n10 p6, 12 Jan 74, by Frank C. Vaughn.

ABSTRACT: The document briefly describes the newly developed pressure suit for open-hearth furnace repairmen who have to work in extreme temperatures.

DESCRIPTORS: \*Pressure suits, \*Furnaces, \*Maintenance, Repair, Protective clothing, High temperature, USSR, Translations

IDENTIFIERS: Openhearth furnaces, NTISDODAF

AD-784 017/6 NTIS Prices: PC\$3.00/MF\$2.25



Air Cooled Protective Suit (Descriptive Title)

Foreign Technology Div Wright-Patterson AFB Ohio (141600)

AUTHOR: Kuybyshev

C3442H3 FLD: 6Q USGRDR7422

11 Jul 74 4p

REPT NO: FTD-HT-23-1742-74

PROJECT: FTD-T74-03-01

MONITOR: 18

Edited trans. of Sotsialisticheskaya Industriya (USSR) n302 p4, 27 Dec 73.

ABSTRACT: A brief report discusses a suit created by the staff members of the laboratory of the Heat-Engineering Department of the Kuybyshev Aviation Institute; it is designed for those who must work for a long period of time in high temperatures (up to 80C). It is equipped with a vortical cooler connected to a compressed air source which, after cooling to 15-20 degrees, is fed to a system of hoses sewn into the suit. Tests have shown great effectiveness in welding operations inside storage tanks during hot climactic conditions. The cooling apparatus is simple and reliable in operation and weighs 700 grams in all.

DESCRIPTORS: \*Protective clothing, Human factors engineering, Welding, Air cooled, High temperature, USSR, Translations

IDENTIFIERS: NTISDODAF

AD-783 982/2 NTIS Prices: PC\$3.00/MF\$2.25



Air Distribution Garment

Department of the Army Washington D C (109900)

Patent

AUTHOR: Spano, Leo A., Lacono, Vincent D.

C3304J2 FLD: 6Q, 95C, 90D USGRDR7420

Filed 29 Oct 71, patented 16 Jan 73 8p

REPT NO: PAT-APPL-193 784, PATENT-3 710 395

MONITOR: 18

Government-owned invention available for licensing. Copy of patent available Commissioner of Patents, Washington, D.C. 20231 \$0.50.

ABSTRACT: The invention relates to protective clothing, and more particularly to a garment adapted to deliver a flow of air over a substantial portion of the body surface of the wearer to maintain the wearer in thermal balance.

DESCRIPTORS: \*Patents, \*Protective clothing, \*Cooling and ventilating equipment, Microclimatology

IDENTIFIERS: PAT-CL-2-78, NTISGPA

AD-164 767/6 NTIS Price: Not available NTIS



UH-1 Door Gunner Protection

Army Land Warfare Lab Aberdeen Proving Ground Md (038950)

Final rept.

AUTHOR: Wood, Benjamin F.

C3244G3 FLD: 6Q, 15E, 1C, 74E, 51C USGRDR7419

Mar 74 29p

REPT NO: LWL-TR-74-13

PROJECT: LWL-01-M-73

MONITOR: 18

ABSTRACT: A cold weather protection kit for door gunners and crew was developed for the UH-1D/H helicopter. The kit consists of a bulkhead and sliding doors which permits the gunner's compartment to be partitioned from the rest of the aircraft interior. The gunner is dressed in clothing to provide him sufficient protection while the rest of the crew and passengers are not exposed. Several clothing ensembles were tested. The kit and two sets of cold weather clothing were evaluated in Alaska. The evaluation was favorable, except for comments that the door gunners were too warm when the doors were closed, and litter and passenger capacity were affected. (Modified author abstract)

DESCRIPTORS: \*Protective clothing, \*Gunners, Acceptability, Test methods, Kits, Aircraft doors, Cold weather, Protection, Thermal insulation, Alaska, Helicopters

IDENTIFIERS: UH-1D aircraft, H-1 aircraft, UH-1H aircraft, NTISDODA

AD-782 112/7 NTIS Prices: PC\$3.25/MP\$1.45



## Development of Lightweight (Cold-Wet) Insulated Footwear

Army Natick Labs Mass Clothing and Personal Life Support Equipment Lab  
(404487)

Technical rept.

AUTHOR: Assaf, Joseph E.

C1612B1 FLD: 6Q, 15E, 83B, 74F USGRDR7321

Jul 73 124p\*

PROJECT: DA-1-J-662713-DJ-40

MONITOR: USA-NLABS-73-15-CE

ABSTRACT: The first generation of what may be considered a new concept in lightweight insulated military footwear in a pull-on type construction was produced by integrally casting and expanding liquid polyurethane systems. The footwear developed meets the original requirements established under this program to develop a lightweight impermeable boot with insulation sufficient to provide protection for 2 hours inactivity at -20F. The average weight of a size ten boot is 24 ounces, as compared with 44 ounces for the standard (black) insulated cold-wet boot. The water absorption of the new footwear is less than 5% by weight. The developed laboratory procedures were used to design and put into operation a pilot plant facility. Initial production of footwear indicates that the economics and processes involved may be satisfactory for the final commercialization of this new concept of lightweight insulated footwear. (Modified author abstract)

DESCRIPTORS: (\*Shoes, \*Isocyanate plastics), (\*Thermal insulation, Shoes), (\*Protective clothing, Shoes), Manufacturing methods, Protective equipment, Environmental tests, Military personnel, Weight, Moistureproofing, Design, Textiles, Adhesives, Coatings

IDENTIFIERS: \*Boots, A

AD-766 690/2 NTIS Prices: PC\$4.25/MF\$1.45



## Footwear for Inundated Areas

Army Natick Labs Mass Clothing and Personal Life Support Equipment Lab  
(404487)

Final rept.

AUTHOR: Swain, Douglas S., Spaeth, Jeanne F.

C1611L3 FLD: 6Q USGRDR7321

Jul 73 28p

REPT NO: C/PLSEL-109

PROJECT: DA-1-J-664713-D-547

MONITOR: USA-NLABS-TR-73-57-CE

ABSTRACT: Warm water immersion foot and related dermatological problems in inundated areas of Southeast Asia seriously limited the combat effectiveness of large numbers of our troops. As a contribution to minimizing the occurrence and intensity of the problem, special footwear was developed by the U.S. Army Natick Laboratories to permit quicker drying of the skin on the feet and legs. These items included a lightweight nylon sock to replace the standard wool sock; a slide fastener for the tropical combat boot to encourage quicker removal of the boots when an opportunity arose to take them off; and a lightweight comfort shoe, similar to a tennis shoe, that could be tucked into a pocket and worn later in bivouac and boot camp areas in place of a soldier's regular boot. Based upon their successful testing in Vietnam, the above three items were adopted in March 1970 as Standard A items for Zones 1 and 2. (Author)

DESCRIPTORS: (\*Feet, \*Protective clothing), Integumentary diseases, Skin, Infantry, Southeast Asia, Vietnam, Tropical regions

IDENTIFIERS: \*Footwear, \*Immersion foot, A

AD-766 684/5 NTIS Prices: PC\$3.00/MF\$1.45



Arctic Personnel Effects

Army Test and Evaluation Command Aberdeen Proving Ground Md (041750)

Final rept. on test operations procedure.

C1521A2 FLD: 6S, 57W, 94D USGRDR7320

15 Aug 72 27p

REPT NO: TOP-1-1-003

PROJECT: AMCR-310-6

MONITOR: 18

Supersedes AD-761 106.

ABSTRACT: The report provides background information on the physiological effects of extreme cold on the human body. The basic document provides a brief overview of some of the physiological problems of operations in a cold environment and the procedures used to overcome these problems. The appendices provide detailed technical information on techniques and requirements for tests involving the effects of a cold environment on personnel. (Author)

DESCRIPTORS: (\*Stress(Physiology), \*Low-temperature research), Arctic regions, Frostbite, Therapy, Protective clothing, Personnel, Military personnel, Tests, Military medicine

IDENTIFIERS: \*Cold stress, Cold tolerance, Cold injuries, A

AD-765 516/0 NTIS Prices: PC\$3.00/MF\$1.45



## Arctic Personnel Effects

Army Test and Evaluation Command Aberdeen Proving Ground Md (041750)

C1074C2 FLD: 6S, 57W USGRDR7314

15 Aug 72 26p

REPT NO: TOP-1-1-003

MONITOR: 18

Availability: Available in microfiche only.

**ABSTRACT:** The document provides background information on the physiological effects of extreme cold on the human body. A brief overview of some of the physiological problems of operation in a cold environment and the procedures used to overcome these problems is provided along with the detailed techniques and requirements for tests involving the effects of a cold environment on personnel.

**DESCRIPTORS:** (\*Stress(Physiology), Low-temperature research), Arctic regions, Frostbite, Therapy, Protective clothing, Personnel, Military personnel, Tests, Armed Forces supplies

**IDENTIFIERS:** \*Cold stress, Cold tolerance, Cold injuries, A

AD-761 106 NTIS Prices: MF\$0.95



## Thermal Environment in Two Integrated Steelworks

BISRA-The Corporate Labs. of the British Steel Corp., London(England).  
Strip Mills Div.

### Environmental studies

AUTHOR: Warner, C. G.

C0414G4 FLD: 6J, 57U, 94E USGRDR7306

Oct 72 52p\*

REPT NO: BISRA-SM/ES/1

MONITOR: 18

**ABSTRACT:** A study of the thermal environment for certain operations has been made at two large integrated steel works in the Strip Mills Division of the British Steel Corporation. If the thermal environment is to be specified completely, four factors must be taken into consideration, namely the dry bulb temperature of the air, its degree of humidity and rate of movement, and the radiation component from the surroundings. The simple instrumental methods for measuring these variables are described in detail together with the evaluation and use of the combining scale of warmth of 'Corrected Effective Temperature'. In many of the operations studied, radiant heat is an important factor and its intensity is such that the exposure is acceptable for only limited periods. With regular exposures to hot conditions people become accustomed to heat and with successive daily exposures circulatory adjustments bring about increased stability of the blood pressure and there is substantial reduction in the heart rate. With the same level of stress the onset of sweating occurs at a lower rectal temperature. Steelworkers who are habitually exposed to radiant heat appear able to withstand much more severe radiation than casual visitors. The benefit to be derived from the use of protective clothing and equipment will offset in some degree the onerous conditions, particularly those arising from the impact of radiant heat.

**DESCRIPTORS:** (\*Industrial medicine, Steel plants), (\*Steel plants, \*Heat stress), Environments, Temperature, Humidity, Air circulation, Radiation, Acclimatization, Heat tolerance, Protective clothing, Industrial hygiene, Stress(Physiology)

PB-214 311/3 NTIS Prices: PC\$4.50/MF\$0.95



Preliminary Studies on the Development and Testing of Low-Temperature Handwear with Improved Dexterity (Report No. 1)

Navy Clothing and Textile Research Unit Natick Mass (388531)

AUTHOR: Gianola, Salvatore V., Reins, Dale A.

C0312J4 FLD: 6Q, 15E, 83B, 74F USGRDR7305

Dec 72 23p

REPT NO: TR-106, 13-71

MONITOR: 18

ABSTRACT: The Navy Clothing and Textile Research Unit (NCTRU) tested the Standard Navy Mittens, Cloth, Insulated, Extreme-Cold-Weather (A-1) against four experimental configurations to ascertain manipulatory capabilities in several dexterities. Test results were measured against bare-hand performance at temperatures of 70 and 35F. and the experimental designs were tested against the Navy Standard at -20F. Results based on means calculated from mean performances of 10 test subjects indicated that the Navy Standard inhibited dexterity and tactile discrimination to a much greater degree than the experimental designs in all tests. Improved prototypes are being produced for further skin temperature measurements and testing of functionability prior to field trials. (Author)

DESCRIPTORS: (\*Gloves, \*Low-temperature research), Design, Performance(Engineering), Thermal insulation, Human engineering, Protective clothing, Touch

AD-754 067 NTIS Prices: PC\$3.00/MF\$0.95



# Mountaineering Equipment Evaluation

Arctic Inst of North America Washington D C (033050)

Technical rept.

AUTHOR: Labelle, Joseph C.

C0072J1 FLD: 15E, 14B, 74F, 94D USGRDR7302

Oct 72 69p

REPT NO: AINA-TR-14

CONTRACT: DAAG17-72-M-2362

MONITOR: 18

ABSTRACT: Pursuant to a request from US Army Natick Laboratories, the Arctic Institute of North America carried out testing and evaluation of certain commercially available mountaineering equipment, considered by the project investigator to be the best available on the commercial market today. This equipment was tested under varying climatic conditions and extremes in the St. Elias Mountains of the southwestern Yukon Territory, Canada. Tests were carried out in the low altitude forested region near Kluane Lake, in the medium altitude alpine environment of the central St. Elias Mountains, and in the severe high altitude polar environment of Canada's highest mountain, Mt. Logan. (Author)

DESCRIPTORS: (\*Army equipment, Cold weather tests), Environment, Mountains, Exploration, Compatibility, Safety, Human engineering, Military requirements, Assembling, Acceptability, Shoes, Tents, Cordage, Blankets, Protective clothing, Sleeping bags, Hoists, Hammers

IDENTIFIERS: \*Mountaineering equipment, Evaluation

AD-751 902 NTIS Prices: PC\$3.00/MF\$0.95



Functional Special Clothing for Builders

Army Foreign Science and Technology Center Charlottesville Va (038300)

AUTHOR: Shibarov, N.

A4495L1 FLD: 6Q, 13B, 83B USGRDR7214

27 Jan 72 11p

REPT NO: FSTC-HT-23-368-71

PROJECT: FSTC-T7023012301

Trans. of Stroikakh Rossii (USSR) n7 1970.

ABSTRACT: Special purpose protective clothing for workmen in various types of employment, particularly construction engineering personnel, is necessary for proficient performance of production operations. The report discusses protective clothing to be used by those in the building industry.

DESCRIPTORS: (\*Protective clothing, Construction), Climatology, Performance(Human), Production, Fire protective clothing, Heat-resistant materials, Cold weather tests, Tropical tests, Environmental tests, USSR

IDENTIFIERS: Translations

AD-742 816 NTIS Prices: PC\$3.00/MF\$0.95



Medical Reports from the Soviet Antarctic Expedition

Joint Publications Research Service, Washington, D.C. (193 300)

AUTHOR: Poggenpol, V. S., Biryukov, E. N., Bazhanov, V. V.,  
Bogoslovskii, M. M., Palyanov, O. I.

A4441J3 FLD: 6S, 6E, 57W, 57E USGRDR7213

9 May 72 24p

Trans. of Sovetskaya Antarkticheskaya Ekspeditsiya. Informatsionnyi  
Byulleten (USSR) n78 p92-96 1970, n81 p98-100, 104-114 1971, and n82  
p77-79 1971.

ABSTRACT: ;Contents: Assessment of the health of polar personnel of  
Vostok Station; Functional status of the cardiovascular system in the  
acute period of acclimatization at Vostok Station; Physical training  
as a means of maintaining work capacity of winter observers under the  
conditions of Vostok Station; Status of sleep in personnel passing the  
winter at Mirnyy Observatory; Data of a physiological-hygienic study  
of the clothing of polar personnel under antarctic conditions; Growing  
vegetables at Soviet Antarctic Stations.

DESCRIPTORS: (\*Medicine, Antarctic regions), (\*Stress(Physiology),  
Antarctic regions), Cold stress, Cold tolerance, Cardiovascular system  
, Acclimatization, Sleep, Arctic clothing, Vegetables, Growth,  
Physical fitness, Translations, USSR

JPRS-55932 NTIS Prices: PC\$3.00/MF\$0.95



Engineering Test of Jungle Hat with Headnet

Army General Equipment Test Activity, Fort Lee, Va. (038 370)

Final rept.

A3701L2 FLD: 6Q, 15E, 83B, 74F USGRDR7206

Jun 68 37p

PROJECT: RDT/E-1-J-643303-D-547, USATECOM-866415

TASK: 1-J-643303-D-54734, 86641501

Distribution Limitation now Removed.

ABSTRACT: An engineering test of a jungle hat with headnet was conducted to determine the technical performance and safety characteristics of the test item as described in the SDR and as indicated by the particular design and to determine the technical and maintenance suitability of the jungle hat with headnet for service testing. It was concluded that the jungle hat with headnet is suitable for service testing. It was recommended that the hats be marked 'For hand laundering only'.

DESCRIPTORS: (\*Protective clothing, Tropical regions), (\*Headgear, Jungles), Tropical tests, Moistureproofing, Deterioration, Army equipment, Shrinkage, Defects(Materials), Coloring, Life expectancy, Nets, Maintenance, Laundering, Environmental tests, Visual inspection, Wear resistance, Weight, Configuration, Cotton textiles, Nylon, Vietnam

IDENTIFIERS: Sizes(Dimensions), Hats, Headnets, Colorfastness, South Vietnam

AD-835 403 NTIS Prices: PC\$3.00/MF\$0.95



Arctic Environmental Test of Chemical Agent Delivery Devices

Army Test and Evaluation Command Aberdeen Proving Ground Md (041750)

Final rept. on materiel test procedure.

A3492B1 FLD: 13D, 15B, 74D USGRDR7204

1 Nov 71 10p

REPT NO: MTP-8-4-008

PROJECT: AMCR-310-6

Supersedes report dated 18 Feb 70, AD-868 302.

ABSTRACT: The report provides a method for evaluation of CB agent delivery device performance characteristics. Describes pretest requirements for initial inspection, physical characteristics, personnel training, instrumentation, facilities, and equipment. It provides procedures for functional and operational characteristics, human factors, safety, and maintenance evaluation tests. (Author)

DESCRIPTORS: (\*Spray tanks, Cold weather tests), (\*Biological warfare agents, Dissemination), (\*Chemical warfare agents, Dissemination), Quality control, Visual inspection, Human engineering, Protective clothing, Test methods, Maintainability

IDENTIFIERS: Environmental test procedures

AD-734 847 NTIS Prices: PC\$3.00 MF\$0.95



Arctic Environmental Test of Boot and Other Foot Equipment

Army Test and Evaluation Command Aberdeen Proving Ground Md (041750)

Materiel test procedure.

A1771K1 FLD: 15E, 14B, 74F, 73D USGRDR7108

23 Jun 69 10p

REPT NO: MTP-10-4-006

ABSTRACT: The objective of the procedures is to provide a means of evaluating the suitability of boots and other foot equipment in arctic winter environmental conditions. (Author)

DESCRIPTORS: (\*Shoes, Cold weather tests), (\*Cold weather tests, Test methods), Arctic regions, Compatibility, Protective clothing, Safety

IDENTIFIERS: \*Environmental test procedures

AD-719 259 NTIS Prices: PC\$3.00 MF\$0.95



Arctic Environmental Test of CB Protective Clothing, Protective Masks  
and Winterization Kits

Army Test and Evaluation Command Aberdeen Proving Ground Md (041750)

Final rept. on materiel test procedure.

A1764C2 FLD: 6Q, 15B, 14B, 83B, 74D, 73D USGRDR7108

15 Jan 70 12p

REPT NO: MTP-8-4-006

PROJECT: AMCR-310-6

ABSTRACT: The procedures outlined in this Materiel Test Procedure are designed to determine and evaluate the performance characteristics of CB protective clothing, protective masks and winterization kits in arctic environmental conditions. Procedures are also included which are applicable to surveillance (5 years) testing of subject items. (Author)

DESCRIPTORS: (\*Protective masks, Test methods), (\*Protective clothing, Test methods), Cold weather tests, Reliability, Chemical properties, Maintainability, Human engineering, Biological warfare agents, Chemical warfare agents, Protective masks, Arctic regions

IDENTIFIERS: \*Environmental test procedures, CB protective clothing

AD-719 131 NTIS Prices: PC\$3.00 MF\$0.95



Arctic Environmental Test of Clothing and Sleeping Equipment

Army Test and Evaluation Command, Aberdeen Proving Ground, Md. (041  
750)

Final rept. on materiel test procedure.

A1534B2 FLD: 15E, 14B, 74F, 73D USGRDR7105

26 Nov 69 15p

REPT NO: MTP-10-4-005

PROJECT: AMCR-310-6

Distribution Limitation now Removed.

ABSTRACT: The report describes test methods and techniques for evaluating the functioning characteristics of clothing and sleeping equipment under arctic winter environment conditions. Evaluation is related to the criteria established by qualitative materiel requirements, small development requirements, technical characteristics or other applicable design requirements or specifications. (Author)

DESCRIPTORS: (\*Clothing, Test methods), (\*Sleeping bags, Test methods), Cold weather tests, Safety, Human engineering, Maintainability, Drop tests, Army research

IDENTIFIERS: Environmental test procedures

AD-867 361 NTIS Prices: PC\$3.00 MF\$0.95



## Cold Sea Survival

Aerospace Medical Research Lab Wright-Patterson AFB Ohio (009850)

AUTHOR: Veghte, James H.

A1451B3 FLD: 6G, 6S, 58D, 57W USGRDR7104

Oct 70 29p

REPT NO: AMRL-TR-70-72

PROJECT: AF-7164

TASK: 716414

ABSTRACT: Two three-man prototype liferafts were evaluated in Arctic waters off Kodiak Island, Alaska. Surface and core temperatures of each subject were monitored continuously during the 22 hour exposure in the TUL raft and 6 hour exposure in the P-B raft. Each subject wore a different clothing assembly: a NASA full pressure suit, the NASA flight clothing, and the Air Force Anti-exposure suit. None of the clothing assemblies was considered adequate to maintain a person in comfort. No significant biochemical shifts in the blood or urine were found. General tolerance times for a variety of cold water-raft exposures are depicted graphically. (Author)

DESCRIPTORS: (\*Life rafts, Cold weather tests), (\*Exposure, Stress(Physiology)), Alaska, Greenland, Astronauts, Survival, Body temperature, Monitors, Tolerances(Physiology), Pressure suits, Flight clothing, Blood chemistry, Urine, Manned spacecraft, Soft landings, Arctic Ocean

IDENTIFIERS: \*Cold water exposure

AD-716 389 NTIS Prices: PC\$3.00 MF\$0.95



EFFICIENCY OF SIGNAL CORPS OPERATORS IN EXTREME COLD

Army Medical Research Lab., Fort Knox, Ky. (039 650)

AUTHOR: Blair, E. A., Gottschalk, Carl W.

A0455F4 PLD: 6Q, 83B USGRDR7015

22 Jan 47 22p

REPT NO: USAMRL-2

PROJECT: AMRL-57-2

Distribution Limitation now Removed.

ABSTRACT: Experiments were designed to test the effect of wearing issue arctic clothing and of exposure to extreme cold while wearing arctic clothing on the efficiency of Signal Corps men operating representative Signal Corps equipment. (Author)

DESCRIPTORS: (\*Protective clothing, Performance(Human)), (\*Cold weather tests, Protective clothing), Radar operators, Radio operators, Telephone equipment, Gloves, Human engineering

AD-806 394 CFSTI Prices: HC\$3.00 MF\$0.65



EXPLORATORY STUDY OF PILOT PERFORMANCE DURING HIGH AMBIENT  
TEMPERATURES/HUMIDITY

Human Engineering Labs Aberdeen Proving Ground Md (172850)

Technical memo.

AUTHOR: Moreland, Stephen, Barnes, John A.

A0445D2 FLD: 6S, 57W USGRDR7015

Mar 70 88p

REPT NO: HEL-TM-6-70

ABSTRACT: The purpose of the study was to measure performance changes which may occur when Army personnel, wearing complete operational/combat flight clothing and equipment, fly a light observation helicopter during periods of high ambient temperature and humidity. Important relationships were found between physiological changes and crew station environment. An equation was developed to quantify a hypothetical relationship between performance, environment and physiological changes. (Author)

DESCRIPTORS: (\*Pilots, Stress(Physiology)), (\*Stress(Physiology), Weather), Helicopters, Solar radiation, Temperature, Humidity, Performance(Human), Flight clothing, Survival kits, Compatibility, Factor analysis, Fatigue(Physiology), Human engineering, Psychometrics

AD-707 371 CPSTI Prices: HC\$3.00 MF\$0.65



HUMAN FACTORS STUDY OF QMC CLOTHING AND EQUIPMENT DURING COLD WEATHER TESTS OF THE PERSHING MISSILE SYSTEM

Quartermaster Research and Engineering Center Natick Mass (292840)

Engineering psychology research study rept.

AUTHOR: McGinnis, John M., Zimmerer, Theodore

7402F4 FLD: 5E, 6Q, 16D, 15E, 925, 907 USGRDR7008

Apr 62 16p

REPT NO: QREC-EPR-1

PROJECT: DA-7-X-9501001

ABSTRACT: The primary purpose of the psychology laboratory participation in the test was to detect human factors problems associated with Quartermaster Corps standard clothing and equipment in the operation of the PERSHING Missile System and to report these problems to the responsible design and development groups. Secondary goals were to make preliminary studies concerning the new experimental integrated clothing system, and the feasibility of using electrically heated handwear for performing critical tasks during operation of the PERSHING equipment. (Author)

DESCRIPTORS: (\*Guided missiles(Surface-to-surface), Army equipment), (\*Exposure suits, Compatibility), Human engineering, Cold weather tests , Arctic regions, Army operations, Launching sites, Ground support equipment, Gloves, Heaters

IDENTIFIERS: Pershing

AD-701 872 CPSTI Prices: HC\$3.00 MF\$0.95



HUMAN FACTORS STUDY OF THE COMPATIBILITY OF THE QMC EQUIPPED SOLDIER  
WITH FIELD COMMUNICATIONS EQUIPMENT UNDER COLD WET CONDITIONS

Quartermaster Research and Engineering Center Natick Mass (292840)

Research study rept.

AUTHOR: McGinnis, John M., Rosinger, George  
7402F2 FLD: 5E, 15E, 925, 907 USGRDR7008

Jul 60 51p

REPT NO: QREC-PB-38

PROJECT: DA-7-X-9501001

ABSTRACT: Incompatibilities were observed during the performance of typical field communications activities within an Infantry Battle Group. Handgear and trigger-finger mittens were involved in serious incompatibilities. The other items involved were the pile cap, the old black rubber insulated (Mickey-Mouse) boots, the helmet and the helmet liner as well as the TE-33 tool equipment, the M-1 rifle, and the gas mask. (Author)

DESCRIPTORS: (\*Infantry, Communication systems), (\*Clothing, Compatibility), Human engineering, Cold weather tests, Arctic regions, Army operations, Gloves, Rifles, Tool kits, Protective masks

AD-701 870 CFSTI Prices: HC\$6.00 MF\$0.95



HUMAN FACTORS STUDY OF QMC CLOTHING AND EQUIPMENT DURING COLD WEATHER TESTS OF THE LITTLE JOHN WEAPON SYSTEM

Quartermaster Research and Engineering Center Natick Mass (292840)

Research study rept.

AUTHOR: Rosinger, George

7402E2 FLD: 5E, 6Q, 19G, 15E, 925, 907 USGRDR7008

Jul 60 14p

REPT NO: QREC-PB-37

PROJECT: DA-7-X-9501001

ABSTRACT: Observations were made on human factors and compatibility problems in relation to the QMC clothing worn by the crew and the equipment of the Little John Weapon System during cold weather tests. The adequacy of the clothing in terms of the protection it afforded the crew, and its compatibility with the equipment have been discussed. Where appropriate, human factors problems were considered in relation to operational efficiency of the equipment. (Author)

DESCRIPTORS: (\*Artillery rockets, Armed forces supplies), Exposure suits, Compatibility, Human engineering, Cold weather tests, Arctic regions, Army operations, Launching sites, Ground support equipment, Clothing

IDENTIFIERS: Little John

AD-701 866 CFSTI Prices: HC\$3.00 MF\$0.95



HUMAN FACTORS STUDY OF QMC CLOTHING AND EQUIPMENT DURING COLD WEATHER TESTS OF THE SERGEANT MISSILE SYSTEM, II

Quartermaster Research and Engineering Center Natick Mass (292840)

Engineering psychology research study rept.

AUTHOR: McGinnis, John M., Zimmerer, Theodore

7402D4 FLD: 5E, 6Q, 16D, 15E, 925, 907 USGRDR7008

Jun 62 14p

REPT NO: QREC-EPR-2

PROJECT: DA-7-X-9501001

ABSTRACT: A previous study was based on cold weather tests of the SERGEANT Missile System which were held at the Eglin AFB Climatic Laboratory during the summer of 1959. The observations described in the present report were made in the same laboratory in 1962. Both studies are part of a continuing effort by the Quartermaster Corps to insure compatibility between the QM-equipped soldier and Army military systems which he will be required to operate. The general purpose of these studies is to detect problems associated with QMC clothing in the operation of Army equipment systems, and to report these problems to the responsible design and development groups. (Author)

DESCRIPTORS: (\*Guided missiles(Surface-to-surface), Army equipment), (\*Exposure suits, Compatibility), Human engineering, Cold weather tests, Arctic regions, Army operations, Launching sites, Ground support equipment, Clothing

IDENTIFIERS: Sergeant missiles

AD-701 864 CFSTI Prices: HC\$3.00 MF\$0.95



THE EVALUATION OF EXPERIMENTAL FABRICS AS ALTERNATES FOR STANDARD WOOL FABRICS

Harris Research Labs Inc Washington Dc (162800)

Quarterly rept. no. 20 for period ending 25 Jun 56

AUTHOR: Hollies, Norman R. S.

7102H1 FLD: 11E, 6Q, 920 USGRDR7004

Jun 56 46p

CONTRACT: DA-19-129-qm-331

PROJECT: DA-7-93-18-018B

Report on Development of Alternate Fabrics to Conserve Wool. See also Quarterly rept. no. 18, AD-698 449.

ABSTRACT: A small scale field test has been carried out to assess the improvement in protection against cold that can be expected from using vapor barrier films over certain parts of the underwear of the standard combat cold weather ensemble. Both the experimental techniques and the data handling methods used in the test appear to have general value for other cold weather field studies of clothing comfort.

DESCRIPTORS: (\*Woolen textiles, Substitutes), (\*Fibers(Synthetic), Test methods), (\*Protective clothing, Fibers(Synthetic)), Test methods, Cold weather tests, Perspiration, Thermal insulation, Tolerances(Physiology)

AD-698 450 CPSTI Prices: HC\$6.00 MF\$0.95



THE EVALUATION OF EXPERIMENTAL FABRICS AS ALTERNATES FOR STANDARD WOOL FABRICS

Harris Research Labs Inc Washington Dc (162800)

Quarterly rept. no. 18 for period ending 25 Dec 55

AUTHOR: Hollies, Norman R. S.

7102G4 FLD: 11E, 6Q, 920 USGRDR7004

Dec 55 47p

CONTRACT: DA-19-129-gm-331

PROJECT: DA-7-93-18-018B

Report on Development of Alternate Fabrics to Conserve Wool. See also Quarterly rept. no. 20, AD-698 450.

ABSTRACT: The report is based on a Quartermaster discussion of the problems of comfort in Army cold weather clothing. The comfort aspects directly connected with thermal protection from the cold were considered in terms of: the present multilayer cold weather ensemble in which the fabric layers are of the water vapor permeable type, and the possible new cold weather systems in which water movement in the clothing assembly is restricted by placing a water vapor impermeable membrane in the clothing layers. (Author)

DESCRIPTORS: (\*Woolen textiles, Substitutes), (\*Protective clothing, Acceptability), (\*Fibers(Synthetic), Test methods), Army equipment, Cold weather tests, Thermal insulation, Permeability, Thickness, Heat transfer, Perspiration

AD-698 449 CFSTI Prices: HC\$6.00 MF\$0.95



THE EVALUATION OF EXPERIMENTAL FABRICS AS ALTERNATES FOR STANDARD WOOL FABRICS

Harris Research Labs Inc Washington Dc (162800)

Quarterly rept. no. 13 for period ending 25 Sep 54

AUTHOR: Hollies, Norman R. S.

7102G3 FLD: 11E, 920 USGRDR7004

25 Sep 54 29p

CONTRACT: DA-44-109-qm-564

PROJECT: DA-9318014

Report on Development of Alternate Fabrics to Conserve Wool.

ABSTRACT: The report presents an examination of the effects of fiber denier and staple length on yarn diameter and fabric thickness of blends; and an examination of the thermal resistance of several four layer cold weather assemblies by the cold wind tunnel technique. Also, a method for comparing the comfort value of experimental shirts on human subjects was evaluated. (Author)

DESCRIPTORS: (\*Woolen textiles, Substitutes), (\*Thermal insulation, Protective clothing), (\*Fibers(Synthetic), Textiles), Cold weather tests, Moisture, Thermal stresses, Thickness, Wind, Nylon, Dacron

AD-698 448 CFSTI Prices: HC\$6.00 MF\$0.95



THE EVALUATION OF EXPERIMENTAL FABRICS AS ALTERNATES FOR STANDARD WOOL FABRICS

Harris Research Labs Inc Washington Dc (162800)

Quarterly rept. no. 10 for period ending 25 Dec 53

AUTHOR: Hollies, Norman R. S.

7102G2 FLD: 11E, 920 USGRDR7004

Dec 53 29p

CONTRACT: DA-44-109-qm-564

PROJECT: DA-93-18-014

Report on Development of Alternate Fabrics to Conserve Wool. See also AD-698 449.

ABSTRACT: Since alteration in the wicking behavior is the result of blending of synthetics with wool, some questions have been raised as to the consequences of this phenomenon in warmth and comfort of clothing. Experiments were conducted analagous to two differing types of use situations: (1) that corresponding to moist-warm conditions in which a single layer of cloth is in contact with a moist skin and one face freely exposed to the wind, and (2) that corresponding to cold weather conditions in which multilayers of fabrics are used and free exposure of some of the component layers is absent. Under conditions in which free exposure of the moist fabric to air is prevented, as in the interior layers of arctic assemblies the wet thermal resistance is not related to the wicking character of the fabric. This is demonstrated by the similar wet thermal resistance of underwear made of wool and shrink-resistant wool, and of nylon and water repellent nylon. A comparison of methods now used for measuring wicking was made in order to determine whether any one of the methods was potentially suitable for specification purposes. With a group of fabrics differing widely in this property, very good agreement was found with the vertical strip method, a horizontal strip method and the drop absorption technique. (Author)

DESCRIPTORS: (\*Fibers(Synthetic), Efficiency), (\*Woolen textiles, Substitutes), Protective clothing, Perspiration, Absorption, Cold weather tests, Thermal properties

AD-698 447 CFSTI Prices: HC\$6.00 MF\$0.95



A STUDY OF TECHNOLOGIES FOR REDUCING WINTER WEATHER COSTS

Arctic Inst. of North America, Washington, D.C. (033 050)

6624D3 FLD: 5C, 13B, 912 USGRDR6921

Jun 69 143p\*

REPT NO: Research paper-55

Sponsored by the Office of Regional Development. Washington, D.C.

ABSTRACT: The Arctic Institute of North America has examined a variety of facts available to it pertaining to the effects of winter weather on regional development of the northern New England states and the states of upper Great Lakes. (Author)

DESCRIPTORS: (\*Urban planning, Weather), (\*Weather, Economics), Feasibility studies, Budgets, Industries, Protective clothing, Damage, Construction, Housing, Snow removal, Ice, Roads, Maintenance, Runways, Statistical analysis, Urban areas, Costs, Great Lakes

IDENTIFIERS: Winter, Regional development and planning, New England, Upper Great Lakes Area

PB-185 658 CPSTI Prices: HC\$6.00 MF\$0.95



FOREIGN MATERIEL FOR ARCTIC OPERATIONS

Library of Congress Washington D C Aerospace Technology Div (009980)

Surveys of foreign scientific and technical literature.

6423D3 FLD: 15G, 925 USGRDR6918

30 Jun 69 46p

REPT NO: ATD-69-80

ABSTRACT: Contents: Ground force materiel R and D: Combat vehicles; Logistical vehicles; Support equipment; Shelters; Individual clothing and equipment; Food and food-preparation equipment; Navigation and communication equipment; Aircraft ground support equipment; and Fixed-wing ground force aircraft.

DESCRIPTORS: (\*Armed forces(Foreign), Armed Forces operations), (\*Armed Forces operations, Arctic regions), Armored vehicles, Engines + motors, Oils, Trailers, Tractors, Passenger vehicles, Maintenance vehicles, Bridges, Housing, Protective clothing, Food, Landing fields, Communication systems, Ground support equipment, Navigational aids, USSR

IDENTIFIERS: Trucks, Pontoon bridges

AD-691 224 CFSTI Prices: HC\$6.00 MF\$0.95



WORK CLOTHES

Army Foreign Science and Technology Center Washington D C (038300)

AUTHOR: Voskresenskaya, N.

6192K3 FLD: 6Q, 941 USGRDR6914

5 May 69 9p

REPT NO: FSTC-HT-23-787-68

PROJECT: PSTC-92236282301

Trans. of Nauchno-Tekhnicheskie Obshchestva SSSR, v10 n6 p33-34 1968.

ABSTRACT: A popular outline of work done by the All-Union Scientific Research Institute of the Sewing Industry. This institute performs comprehensive testing and field evaluation of all types of work clothing, including physiological tests in test chambers to determine the suitability of work clothing for the type of work being done. (Author)

DESCRIPTORS: (\*Protective clothing, Environmental tests), Specifications, Industries, Textiles, Industrial plants, Cold weather tests, Climatology, Models(Simulations), Labor, Design, Acceptability, USSR

IDENTIFIERS: Translations, \*Work clothes

AD-688 057 CFSTI Prices: HC\$3.00 MF\$0.95



A COOLING HOOD IN HOT-HUMID ENVIRONMENTS

Kansas State Univ Manhattan Dept of Industrial Engineering (404603)

Special rept.

AUTHOR: Konz, Stephan A., Nentwich, H. Fritz

5885B3 FLD: 6Q USGRDR6910

Jan 69 39p\*

REPT NO: THEMIS-SR-81

CONTRACT: F44620-68-C-0020

PROJECT: AF-7921

TASK: 792108

MONITOR: AFOSR-69-0574TR

ABSTRACT: This paper describes cooling man with conduction; specifically, cool water in tubes of a hood on the head. The results can be summarized as follows: Head temperature was kept considerably lower and skin and rectal temperatures were kept lower; cardiac cost was reduced; sweating was at approximately 40% of the rate without the hood, and permitted exposure time to heat stress was longer. (Author)

DESCRIPTORS: (\*Cooling, Humans), (\*Protective clothing, Cooling), Body temperature, Skin, Heat tolerance, Conduction (Heat transfer), Liquid cooled, Stress (Physiology), Sweat glands, Humidity, Environment

IDENTIFIERS: Cooling hoods

AD-684 582 CFSTI Prices: PC\$6.00 MF\$0.95



MICROCLIMATE-CONTROLLED (THERMALIBRIUM) PROTECTIVE CLOTHING SYSTEM FOR  
MILITARY APPLICATIONS

Army Natick Labs Mass Clothing and Personal Life Support Equipment Lab  
(404487)

Technical rept.

AUTHOR: Spano, Leo A.

5743H2 FLD: 6Q USGRDR6908

Nov 68 29p

REPT NO: C/PLSEL-60

PROJECT: DA-1-J-062110-A-533

MONITOR: USA-NLABS-TR-68-58-CE

ABSTRACT: Thermalibrium clothing is a system of heat-regulated protective ensembles designed to protect troops exposed to extreme and/or toxic environments. The design and functional characteristics of the various components comprising thermalibrium systems are described. Typical functional systems for use in U. S. Army aircraft and tracked vehicles (tanks), and in chemical and biological contaminated environments are discussed. (Author)

DESCRIPTORS: (\*Protective clothing, Design), Military requirements, Thermal radiation, Environment, Exposure, Chemical warfare agents, Toxicity, Biological warfare agents, Tanks(Combat vehicles), Army aircraft, Protective masks, Radioactive fallout, Heat, Cold weather tests, Hazards

IDENTIFIERS: Thermalibrium clothing

AD-682 715 CFSTI Prices: PC\$6.00 MF\$0.95



A SURVEY OF HUMAN FACTORS IN MILITARY PERFORMANCE IN EXTREME COLD WEATHER

George Washington Univ., Alexandria, Va. Human Resources Research Office. (173 200)

Research memo.

AUTHOR: Washburne, Norman F.

5385D3 FLD: 5I, 5J USGRDR6902

Jun 60 50

ABSTRACT: A survey of human factors in military performance in extremely cold weather.

DESCRIPTORS: (\*Military personnel, Performance(Human)), (\*Arctic regions, Military personnel), State-of-the-art reviews, Stress(Psychology), Alaska, Canada, Greenland, Military psychology, Armed Forces operations, Cold weather tests, Military psychology, Adjustment(Psychology), Military training, Attitudes, Stress(Psychology), Environment, Protective clothing, Stress(Physiology), Reaction(Psychology)

AD-477 889 CFSTI Prices: PC\$6.00 MF\$0.95



PERFORMANCE AND LIFE SUPPORT IN ALTERED ENVIRONMENTS

Kansas State Univ Manhattan Inst for Environmental Research (404229)

Interim rept. 1 Sep 67-1 Jul 68

AUTHOR: Nevins, Ralph G.

5313C2 FLD: 6K USGRDR6901

1 Aug 68 73p

CONTRACT: F44620-68-C-0020

PROJECT: AF-7921

TASK: 792108

MONITOR: AFOSR-68-2096

Report on Project Themis.

ABSTRACT: The three most significant scientific or technological accomplishments are as follows: (a) Systems Analysis of Optimization of Life-supported Systems; (b) Biological Rhythms; (c) Cooling Hood for Hot-Humid Environment. (Author)

DESCRIPTORS: (\*Life support, Reports), Performance(Human), Ventilation, Optimization, Behavior, Rhythm(Biology), Protective clothing, Closed ecological systems, Psychophysiology, Stress(Psychology)

IDENTIFIERS: Themis project

AD-677 679 CFSTI Prices: PC\$6.00 MF\$0.95



FEASIBILITY STUDY AND CONCEPTUAL DESIGN FOR A PERSONAL THERMAL  
CONDITIONING SYSTEM

Sanders Nuclear Corp Nashua N H (388213)

Technical rept. Aug-Dec 67

AUTHOR: Sullivan, J. J., Disco, N. R., Wong, A.

4723H4 FLD: 18B, 6G, 6Q, 20M USGRDR6815

Dec 67 327p\*

CONTRACT: F41609-67-C-0096

PROJECT: AF-6770

MONITOR: AMD-TR-68-1

ABSTRACT: An airman forced to eject over Arctic terrain or cold water is faced with a very brief survival period after landing. (Approximately three minutes in 28F water.) This period of time is insufficient to initiate and accomplish a successful rescue mission. A study has been made to determine the feasibility of extending the survival period by warming the airman with heat generated by a radioisotope. A conceptual design has been created consisting of a network of water filled tubes worn beneath an insulated suit. Water in the tubes is heated by a 500 watt radioisotope to warm the pilot during a survival situation (28F water or -65F air), and is cooled by an 825 watt refrigerator to keep the airman comfortable while flying the aircraft with cabin temperatures up to 120F. A thermo-electric power generator supplies 12 watts of power for the water pump. Comparison studies of several radioisotopes have been made. System calculations and component calculations show that the concept is feasible and practicable for extending the survival period indefinitely. The survival system weight is estimated at 80 pounds and is configured to fit in a USAF standard ejection seat kit. (Author)

DESCRIPTORS: (\*Protective clothing, Radioactive isotopes), (\*Radioactive isotopes, Heat transfer), (\*Survival kits, Arctic regions), Pilots, Feasibility studies, Ejection seats, Terrain, Sea rescues, Radiation tolerance, Heat, Aircraft cabins, Thermal insulation, Refrigeration systems, Cooling, Design

AD-670 212 CFSTI Prices: PC\$6.00 MF\$0.95



DIRECT MOLDED SOLE BOOTS

Army Natick Labs Mass Clothing and Organic Materials Lab (400237)

Technical rept.

AUTHOR: Park, Alice F., Swain, Douglas S.

447114 FLD: 15E, 6Q USGRDR6810

Sep 67 24p

PROJECT: DA-1M643303D54712

MONITOR: FL-19

ABSTRACT: The U.S. Army Natick Laboratories modified a method of footwear construction known as Direct Molded Sole (DMS) for the Army's tropical and all-leather combat boots. NLABS developed the special component materials, boot designs and fabrication techniques required to produce military footwear by the DMS process. The sole and heel of the new DMS boots are molded directly to the boot uppers on high-pressure vulcanizing machines, eliminating the sole stitching and heel nailing which were the major points of failure in welt combat footwear. The DMS boots are significantly more durable and more comfortable than welt construction boots, and will save the military money both in production cost and by reducing boot repair and maintenance problems. The DMS process has enabled NLABS to incorporate special protective features into the tropical combat boot, including a steel shield to resist penetration of the boot bottom by punji stakes, and a wedge shank to deflect and absorb the impulse of antipersonnel land mines. (Author)

DESCRIPTORS: (\*Shoes, Manufacturing methods), Molding, Army personnel, Tropical regions, Leather, Rubber, Vulcanization, Cost effectiveness, Maintenance, Honeycomb cores, Protection, Armed forces supplies, Shielding, Shock resistance, Military requirements, Metal plates

IDENTIFIERS: \*Boots, \*Direct molded soles

AD-666 756 CFSTI Prices: PC\$6.00 MF\$0.95



# SEALED INSULATED MILITARY BOOTS

Army Natick Labs Mass Clothing and Organic Materials Lab (400237)

Technical rept.

AUTHOR: L'Hollier, Leslie H., Park, Alice F.

4471K4 FLD: 15E, 6Q USGRDR6810

Nov 67 29p

PROJECT: 7-79-10-002

MONITOR: FL-20

ABSTRACT: Sealed insulated rubber boots protect U.S. military personnel against cold injuries to the feet in wet- and dry-cold climates. The boots are constructed on a double vapor barrier principle, with an air chamber and insulating material sealed between two impermeable barriers of rubber. The outer boot wall or barrier protects the insulation against environmental water and the inner barrier next to the foot protects the insulation against foot perspiration and water vapor. By keeping the insulation dry, the double barriers eliminate the evaporation of moisture from the foot and sockgear which is a major cause of cold injury. The conception of the principle of the sealed insulated boot during World War II, its design and fabrication for its initial use in the Korean War, and subsequent improvements are discussed. (Author)

DESCRIPTORS: (\*Shoes, \*Thermal insulation), Design, Rubber, Seals, Frostbite, Exposure, Moistureproofing, Permeability, Water vapor, Perspiration, Construction, Armed forces supplies, Military personnel, Feet

IDENTIFIERS: \*Boots

AD-666 752 CFSTI Prices: PC\$6.00 MF\$0.95



SERVICE TEST OF SURVIVAL KIT, OV-1 AIRCRAFT, COLD CLIMATE

Army Arctic Test Center, Fort Greely, Alaska. (036 000)

Final rept.

4445C2 FLD: 6G USGRDR6809

22 May 64 42p

PROJECT: DA-1K1-41812D183

ABSTRACT: Tests were conducted to determine the suitability of the survival kit, OV-1 Aircraft, Cold climate for army use under Arctic winter conditions. The survival kit was tested at ambient air temperatures ranging from 44 F to -46 F. The URC-10 radio w/battery was unsatisfactory on the voice mode after a cold-soak of 16 hours at temperatures of 14 F and below. It was concluded that, when modified to correct the deficiencies and shortcomings, and when the URC-10 radio is removed from the kit, to be carried as personal equipment, the survival kit, OV-1 Aircraft, Cold climate should be suitable for use under Arctic winter conditions. (Author)

DESCRIPTORS: (\*Survival kits, Arctic regions), Aircraft, Tests, Effectiveness, Protective clothing, Army, Military requirements, Radio equipment, Temperature

IDENTIFIERS: Signaling devices, V-1 aircraft, OV-1 aircraft, Winter(Season)

AD-440 337 CFSTI Price: PC\$6.00



# EFFECT OF WET INSULATION IN VAPOR BARRIER COLD-WEATHER BOOTS

Army Research Inst of Environmental Medicine Natick Mass (040850)

AUTHOR: Breckenridge, J. R.

3943I1 FLD: 6Q USGRDR6723

24 Mar 67 3p

MONITOR: 18

Availability: Published in Textile Research Journal v37 n9 p809-11  
Sep 1967.

ABSTRACT: In order to insure a consistently high level of foot protection for the soldier in cold environments, the Army makes a practice of declaring unserviceable any cold-weather insulated boot which shows evidence (through weight gain) of having 1 oz or more of water in its insulation. The choice of a one-ounce rejection level is an arbitrary one, necessitated by a lack of data on the effect of water on insulating value. Studies were made to determine the effect of various amounts of water in the insulated boot, to provide a more realistic basis for setting the rejection level. It was felt that a greater amount of water than 1 oz might be tolerated without seriously compromising foot protection, in which case savings amounting to many thousands of dollars annually would be realized. The plan for this study called for measurement of thermal insulation of three separate cold-dry insulated boots plus sock, dry and with 1/2, 1, 1 1/2, and 2 oz of water added to the sealed boot insulation. All boots were from the same production run and weighed approximately 48 oz each.  
(Author)

DESCRIPTORS: (\*Shoes, Thermal insulation), Water, Protection, Feet, Acceptability, Protective clothing, Evaporation, Tolerances (Physiology)

AD-659 694



PHYSICAL AND PHYSIOLOGICAL FACTORS IN FATAL EXPOSURES TO COLD

Army Research Inst of Environmental Medicine Natick Mass (040850)

AUTHOR: Kreider, Marlin B.

3751B2 PLD: 6S USGRDR6720

18 Jul 66 11p

MONITOR: 18

Availability: Published in National Speleological Society Bulletin  
v29 n1 p1-11 Jan 1967.

ABSTRACT: The deaths of three cave explorers recently from exposure to cold came as a surprise because of the moderate climate of most caves. The special conditions not usually present simultaneously during cave explorations which contributed to these fatalities are: (1) frequent or continuous exposure to cold water, (2) continuation and even intensification of the exposure after the first signs of deterioration from the cold are apparent, (3) the necessity to perform heavy and skilled work in order to make an exit from the cave during this period of increased cold exposure when fatigue from hours of exploring is severe, and (4) wearing of lightweight clothing. When the first signs of deterioration due to cold appeared, rewarming should have begun immediately because this is when body temperature began to drop more rapidly than before. In these cases where death is assumed to be due to hypothermia, it must have dropped very rapidly since death came within 1 1/2 hours of the first signs of deterioration. The personal factors which are favorable to the maintenance of body temperature are good physical fitness which provides a high capacity for exercise and thus for body heat production; good nutritional status; good health; large body size and fat content; abstinence from drugs affecting performance and body function. However, since cooling in water is two to four times faster than in air, the use of protective clothing is necessary. Layered woolen clothing, covered by an outer shell of tight weave which is closed at the cuffs, sleeves and neck to reduce convective cooling, give the next best protection to that of a foam rubber suit during water immersion. (Author)

DESCRIPTORS: (\*Exposure, Survival), (\*Hypothermia, Survival), Tolerances(Physiology), Accidents, Body temperature, Heat production(Biology), Fatigue(Physiology), Physical fitness, Exercise, Body weight, Nutrition, Protective clothing, Evaporation, Water, Cooling, Responses, Stress(Physiology)

IDENTIFIERS: Caves, Cold tolerance

AD-656 819



## ELECTRICALLY HEATED HANDWEAR

Army Natick Labs Mass Clothing and Organic Materials Div (400237)

Summary rept.

AUTHOR: Madnick, Herman, Park, Alice

3725L4 FLD: 6Q, 15E USGRDR6719

Mar 67 23p

REPT NO: C/ED-46

PROJECT: DA-1M624101D504

MONITOR: USA-NLABS-TR-67-82-CM

**ABSTRACT:** Electrically heated handwear is presented as a solution to the hand-protection problem for equipment operators and other military personnel who must use their hands in extremely cold conditions for prolonged periods. The problem of hand cold injury, the inadequacy of conventional solutions and existing handwear, and various experimental approaches are discussed. The U.S. Army Natick Laboratories has assembled an auxiliary electrical handwear system and is continuing research efforts to improve electrically heated handwear. It is concluded that because of the demonstrated need for such handwear and the current feasibility of manufacturing it, electrically heated handwear should be supplied to the appropriate personnel. (Author)

**DESCRIPTORS:** (\*Gloves, Heating elements), Operators(Personnel), Arctic regions, Aviation personnel, Heating, Exposure, Frostbite

AD-656 742 CFSTI Prices: PC\$6.00 MF\$0.95



DEVELOPMENT OF A COMBAT BOOT LAST FOR THAI AND VIETNAMESE MILITARY FORCES

Army Natick Labs Mass Clothing and Organic Materials Div (400237)

Final rept. (Phase 2), 11 Oct 65-20 Jan 66

AUTHOR: Swain, Douglas S.

3665H3 PLD: 15E, 6N USGRDR6718

May 67 27p

CONTRACT: ARPA Order-267

MONITOR: USA-NLABS-TR-67-81-CM

ABSTRACT: The report covers Phase II of work accomplished by the U. S. Army Natick Laboratories, Natick, Massachusetts under Advanced Research Project Agency (ARPA) Order No. 267, Amendment 11 on 'The Development of a Combat Boot Last for Thai and Vietnamese Military Forces.' The program was a joint venture conducted with anthropometric data on Thai and Vietnamese feet originating at the Natick Laboratories, and preliminary tests of lasts and footwear models developed from this study by Jones and Vining, Inc., Brockton, Massachusetts. The Project Officer on this program from the Natick Laboratories, and the representative from Jones and Vining, Inc., were in Thailand and Vietnam from 24 March to 24 April, 1965 at which time they conducted fit and wear tests of combat boots manufactured over the newly-developed last. The tests showed that 99 percent of the Vietnamese/Thai military personnel could be adequately fitted using the new last with minor modifications, which were made. Models and equipment to fabricate the boots were provided to Thailand and Vietnam, U. S. Military Assistance Command. (Author)

DESCRIPTORS: (\*Shoes, \*Armed forces supplies), Thailand, Vietnam, Japan, United States, Protective clothing, Armed forces research, Wear resistance, Measurement, Anthropometry

AD-655 529 CFSTI Prices: PC\$6.00 MF\$0.95



STUDIES OF COLD WEATHER CLOTHING

Army Medical Research Lab Fort Knox Ky (039650)  
AUTHOR: Horvath, Steven M.  
3443F3 PLD: 6Q, 11E USGRDR6714  
24 May 44 12p  
PROJECT: 20-4  
MONITOR: 18

ABSTRACT: The purpose of the research was to determine the amount of thermal insulation lost by convection between layers of two adjacent fabrics, and within the fabrics themselves. No increase in insulation was observed from the napping of either the sateen windproof outer garments or the pile garments. Both the standard issue and the modified napped issue have the same inherent insulation of approximately five (5) clo. Subjectively, no differences in comfort sensations were reported with the wearing of these two issues or combinations thereof. The napping of garments is not considered a satisfactory means for enhancing the insulating value of clothing. (Author)

DESCRIPTORS: (\*Protective clothing, Thermal insulation), (\*Textiles, Convection(Heat transfer)), Cold weather tests, Exposure, Military requirements, Military medicine

AD-652 352 CFSTI Prices: PC\$3.00 MF\$0.95



# STUDY OF THE PHYSIOLOGIC EFFECTS OF COLD

Army Medical Research Lab Fort Knox Ky (039650)  
AUTHOR: Horvath, Steven M., Golden, Howard, Wagar, John  
3443F1 PLD: 6S USGRDR6714  
31 May 46 21p  
REPT NO: 3  
PROJECT: 1-19  
MONITOR: 18

ABSTRACT: Continuous observations were made of the metabolic rate, skin and rectal temperatures of men while dressed in Arctic uniforms and sitting quietly in extremely cold environments. Ambient temperatures ranged from +1.1 to 40C. The heat production in the cold was above basal values during the entire test period. In the -40C environment, average metabolic increase of 13, 53 and 74 per cent were recorded for the first, second and third hours respectively. The rise in heat output during the first hour could not be explained on the basis of shivering. In the third hour, shivering was present in the majority of the subjects. The fall in rectal temperatures was moderate although values of 35.4C. were occasionally observed. The absolute value was not correlated with the presence of shivering and, therefore, low rectal temperatures could not be considered as the stimulus for shivering. Mean skin temperatures fell precipitously during the first hour of exposure and were stabilized before the end of the test period. Considerable variability was observed in both the rate and extent of fall not only in different men, but in repeat tests on the same subject. Of all the skin areas, the hands and feet exhibited the greatest temperature changes in both rate and degree of fall. Toe temperatures below 0C. were noted in several instances. The susceptibility of the extremities to cold environments was related to their sensitive vasomotor mechanisms and to the fact that they were provided with the least amount of insulative protection. (Author)

DESCRIPTORS: (\*Stress(Physiology), \*Cold weather tests), Metabolism, Body temperature, Heat production(Biology), Shivering, Exposure, Extremities, Responses, Relaxation(Physiology), Military medicine, Protective clothing

AD-652 350 CFSTI Prices: PC\$6.00 MF\$0.95



TEST OF THE ADEQUACY AND RANGES OF USE OF CLOTHING FOR JUNGLE  
OPERATIONS; EFFECTS OF IMPREGNATED AND IMPERVIOUS CLOTHING UPON THE  
EFFICIENCY OF PERSONNEL

Army Medical Research Lab Fort Knox Ky (039650)  
AUTHOR: Bean, William B., Ashe, William F., Eichna, Ludwig W.  
3441H3 FLD: 6Q USGRDR6714  
24 Nov 43 10p  
PROJECT: 2(2-3), 2(2-18)  
MONITOR: 18

ABSTRACT: The effects of various types of issue clothing and non-standard items were measured during two acclimatization experiments, utilizing thirty (30) enlisted volunteers in the Hot Room of the Armored Medical Research Laboratory. The men were well acclimatized and showed no evidence of deterioration during the period of test of the clothing. Relative changes in heart rate, rectal temperature, water (sweat) loss and subjective reactions during and upon completion of standard work were noted. (Author)

DESCRIPTORS: (\*Clothing, Tropical tests), Jungles, Acclimatization, Performance(Human), Acceptability, Military requirements

AD-652 264 CPSTI Prices: PC\$3.00 MF\$0.95



HUMAN REACTIONS TO HIGH TEMPERATURES ANNOTATED BIBLIOGRAPHY  
(1927-1962)

Army Tropic Test Center Fort Clayton Canal Zone (042290)  
3404L4 FLD: 6S, 5J, 14B USGRDR6713  
Mar 67 115p  
PROJECT: DA-1L013001A91A-00  
MONITOR: 18

ABSTRACT: A 352 item annotated bibliography extracted from three sources, the Psychological Abstracts, the Defense Documentation Center, and the Tufts University Human Engineering Service. Includes effects of high temperature, high humidity, tropic and desert environments on human performance, comfort, well-being, and internal responses. The bibliography is a collation from secondary sources. (Author)

DESCRIPTORS: (\*Heat tolerance, Bibliographies), Tropical regions, Tropical tests, Humidity, Temperature, Responses, Clothing, Adaptation(Physiology), Acclimatization, Performance(Human), Human engineering, Stress(Physiology), Desert tests, Reaction(Psychology), Abstracts

AD-651 940 CFSTI Prices: PC\$6.00 MF\$0.95



# ATTITUDES OF TROOPS IN THE TROPICS

Rowland and Co Haddonfield N J (310300)

Abridgement of research repts.

AUTHOR: Lee, Robert J.

3243B2 FLD: 5J, 5I USGRDR6710

Feb 67 106

CONTRACT: DA-19-129-QM-2076, DA-129-QM-2076 (N)

PROJECT: 7X95-01-001

MONITOR: EPT-6

ABSTRACT: Data were compiled to determine the effects of tropical operations on opinions and attitudes of the soldier regarding food, clothing, and equipment. Three groups, both combatant and non-combatant, from Panama, Okinawa, and Hawaii, participated. The objective was to obtain, summarize and suggest uses for this information for more effective military operations in the tropics. Items of clothing and equipment developed for a tropic environment were regarded as generally acceptable. Overall, foods were acceptable with quality preferred over quantity. Cooperation or uncooperation in responses was linked to factors of age, education, rank, time in the Army, and combat experience. The Panama group rated the highest in most of these categories. Other variables included water, climate, insects, entertainment and family associations. Specific conclusions are listed regarding methodology and equipment.

DESCRIPTORS: (\*Military personnel, Attitudes), (\*Tropical regions, Military personnel), Food, Clothing, Environment, Education, Army equipment, Reaction (Psychology), Social psychology, Armed forces operations, Logistics, Aging (Physiology)

AD-649 540 CPSTI Prices: PC\$6.00 MF\$0.95



SHIPBOARD EVALUATION OF EXPERIMENTAL MODEL I BUOYANT INSULATED COLD  
WEATHER JACKETS

Naval Supply Research and Development Facility Bayonne N J (252300)

AUTHOR: Zemme, Caesar J., Silvia, John

2823J4 FLD: 6P USGRDR6618

May 66 2p

PROJECT: RENS-14-02-001-00-1, T-F015

ABSTRACT: A service evaluation of experimental buoyant permeable and impermeable cold weather jackets was conducted during two consecutive winters aboard aircraft carriers and destroyers. The extended evaluation was conducted to assess the protective properties, fit, and durability (especially of the buoyant insulation) of the garments. The jackets were insulated with unicellular polyvinyl chloride foam (PVC) which provided sustained emergency buoyancy as an integral component of the jackets. This feature is not provided by the standard Navy A-2 Intermediate Cold Weather Jacket and A-1 Extreme Cold Weather Jacket when the liner is removed. Test results indicated that the new jackets furnished satisfactory, functional utility and environmental protection and that the PVC foam was suitable for use as an insulating material. The tests also revealed certain design short-comings of the impermeable jacket which will require correction. (Author)

DESCRIPTORS: (\*Clothing, \*Thermal insulation), Shipborne, Buoyancy, Polyvinyl chloride, Protective clothing, Tests

IDENTIFIERS: Evaluation

AD-636 973 CFSTI Prices: PC\$3.00 MF\$0.95



# CLOTHING ALMANAC FOR SOUTHEAST ASIA

Earth Sciences Div Army Natick Labs Mass (400613)

Technical rept.

AUTHOR: Anstey, Robert L.

2544E3 FLD: 6P USGRDR6614

Jan 66 2p

REPT NO: ES-22

PROJECT: da-1V025001A129

MONITOR: USA-NLABS-TR-66-20-ES

Availability: Original document in color until exhausted.

ABSTRACT: The Clothing Almanac supplements TA 50-902, mobilization, dated 3 April 1963. Monthly military clothing requirements are given for Southeast Asia, including the countries of Burma, Laos, Cambodia, Malaysia, Thailand, and Viet Nam. This region covers portions of Clothing Allowance Zones I and II, which are further divided into mountainous and non-mountainous clothing requirement areas. In general, the environmental conditions of the lowland areas in the southern half of this region require the use of Zone I clothing throughout the year. Zone II clothing is required in lowlands in the northern half of this region. Mountainous areas generally require the use of items listed for the next colder zone, or any additional item required for troop protection. Clothing items are grouped alphabetically in tables for each area. A map is provided at the back of the report to indicate the extent of each area in Southeast Asia. The almanac includes a summary of physical features of the region, high elevations, climate, biotic conditions and the relation of these features to the issue of special clothing items. (Author)

DESCRIPTORS: (\*Clothing, Southeast Asia), (\*Military requirements, Clothing), Army personnel, Protective clothing, Environment, Climatology, Disease vectors, Poisons, Reptiles, Insects, Bites + stings, Plants(Botany), Trees, Mountains, Periodic variations

AD-633 631 CFSTI Prices: PC\$3.00 MF\$0.95



POLAR MANUAL. ARCTIC AND ANTARCTIC LIVING CONDITIONS, PERSONNEL SELECTION, HYGIENE AND SANITATION, CLOTHING, NUTRITION, SUPPLIES AND EQUIPMENT, VISUAL DISABILITIES AND COLD INJURIES, FIRST AID, SAFETY, AND SURVIVAL

Naval Medical School Bethesda M (250000)

Fourth ed.

AUTHOR: Hedblom, E. E.

2521E1 PLD: 6R, 6E, 6D, 6F, 6G, 6H, 6K, 6M, 6O USGRDR6615

30 Apr 65 2p

DESCRIPTORS: (\*Polar regions, Handbooks), Ecology, Personnel, Physiology, Hygiene, Adjustment(Psychology), Heat, Clothing, Nutrition, Sanitary engineering, Transportation, Logistics, Vision, Wounds + injuries, Geography, Medical supplies, Medicine, Survival, Dentistry, Mortality rates, Safety

AD-634 266 CPSTI Prices: PC\$3.00 MF\$0.95

No abstract available



HUMAN FACTORS ASPECTS OF THE QM-EQUIPPED SOLDIER IN JUNGLE OPERATIONS:  
AN OPERATIONAL APPROACH

Army Natick Labs Mass Pioneering Research Div (400933)

Technical rept.

AUTHOR: Tambe, Joseph T., Stenbridge, George E.

2502A1 FLD: 15E, 6P, 6G, 5D USGRDR6615

May 66 2p

REPT NO: EPT-3

PROJECT: da-1K0-24701-A122

MONITOR: USA-NLABS-TR-66-48-PR

ABSTRACT: The study explores human factors problems associated with jungle operations by means of field observations made during tactical exercises conducted at the Jungle Warfare Training Center. The operational and physical environments, required soldier tasks and activities, and the equipment used are described. The major problems discussed concern combat load, heat, mobility, and certain features of rations. (Author)

DESCRIPTORS: (\*Human engineering, Logistics), (\*Army personnel, \*Jungles), (\*Clothing, Human engineering), (\*Military rations, Human engineering), Armed forces supplies, Armed forces operations, Tropical tests, Mobility, Loading(Mechanics)

AD-634 720 CFSTI Prices: PC\$3.00 MF\$0.95



POLYESTER BATTING FOR CLOTHING AND MITTEN INSULATING LAYERS

Army Natick Labs Mass Clothing and Equipment Development Branch (401508)

Applications engineering project, Aug-Dec 65.

AUTHOR: Madnick, Herman

2415H2 FLD: 15E, 11H USGRDR6618

Feb 66 2p

REPT NO: C/ED-40

MONITOR: USA-NLABS-TR-66-23-CM

ABSTRACT: The report describes the feasibility of using a flame-bonded polyester insulating layer to replace a stitch-bonded insulating material for clothing and mitten environmental layers. Substitution of this material would reduce the weight of the end product and lower the ultimate cost to the government because it would require fewer fabrication processes. (Author)

DESCRIPTORS: (\*Polyester plastics, Thermal insulation), (\*Gloves, Thermal insulation), (\*Clothing, Thermal insulation), Feasibility studies, Arctic regions

AD-636 728 CFSTI Prices: PC\$3.00 MF\$0.95



THE ARCTIC SOLDIER: POSSIBLE RESEARCH SOLUTIONS FOR HIS PROTECTION

Army Research Inst of Environmental Medicine Natick Mass (000000)

AUTHOR: Goldman, Ralph F.

1701J1 USGRDR6510

1964 2p

ABSTRACT: The results are summarized of a research program on auxiliary heating with minimum power. The program established the feasibility of 2 approaches: auxiliary heating for the extremities of the body and a conditioned air-clothing system that probably has primary application in hot and/or toxic environments but could handle cold easily. Protection of the inactive soldier in extremely cold environments was resolved in terms of the parameters of weight and cost. A 7-lb prototype system was adequate to meet military characteristics of providing 8 hours of protection for the inactive man at -40 degrees F with a 3 mile/hour wind. Improvement in the weight factor can be anticipated as power source development improves over the current 16 watt-hours/pound. A more immediate use of auxiliary heated handware and footwear is in areas where power is available such as military vehicles, radio and radar equipment, and missiles. The auxiliary heating system developed is compatible with a 12- or 24-v AC or DC power source.

DESCRIPTORS: (\*ARMY PERSONNEL, ARCTIC REGIONS), (\*ARCTIC REGIONS, ARMY PERSONNEL), (\*PROTECTIVE CLOTHING, ARMY PERSONNEL), (\*ACCLIMATIZATION, ARMY PERSONNEL), SCIENTIFIC RESEARCH, SHELTERS, HEATING, FEET, HANDS, CLIMATE, EXPOSURE SUITS, HEAT PRODUCTION (BIOLOGY), GLOVES, SHOES

IDENTIFIERS: COLD TOLERANCE

AD-613 189 CFSTI Price: PC\$3.00



RESPIRATORY AND MICROCLIMATE TEMPERATURES WITHIN THE PARKA HOOD IN  
EXTREME COLD

Aerospace Medical Research Labs Wright-Patterson AFB Ohio (000000)

Final rept.

AUTHOR: Veghte, James H.

1485L4 USGRDR

Sep 64 2p

PROJECT: 7164

TASK: 716409

MONITOR: AMRL-TDR64 79

ABSTRACT: The standard Air Force arctic clothing was worn to determine if it provided adequate head protection in extremely cold temperatures. Subjects were exposed to -62C for 40 to 50 minutes in an environmental chamber. Possible respiratory problems and frostbite of the cheeks and nose were the primary concern. Subjects resting or exercising experienced no respiratory or frostbite problems. Air in the hood rapidly approached ambient conditions, because of the expulsive nature of expiration and the strong convective air movement. Exercise increased the microclimate temperatures in the hood. The existing hood design was found to provide adequate head protection for AF personnel at more extreme temperatures than are normally encountered in the Arctic. (Author)

DESCRIPTORS: (\*PROTECTIVE CLOTHING, COLD WEATHER TESTS), (\*RESPIRATION, COLD WEATHER TESTS), (\*FROSTBITE, COLD WEATHER TESTS), HEAD, NOSE, FACE, POLAR REGIONS, ARCTIC REGIONS, EXPOSURE, EXERCISE, RELAXATION, AIR, TEMPERATURE, TEMPERATURE SENSITIVE ELEMENTS, THERMOCOUPLES, AIR FORCE PERSONNEL

IDENTIFIERS: PARKA HOODS, MICROCLIMATE TEMPERATURES, BIOTHERMAL RESEARCH

AD-608 139 CFSTI Price: PC\$3.00



ATTITUDES OF TROOPS IN THE TROPICS. VOLUME ONE. EQUIPMENT AND  
SITUATIONAL EVALUATIONS

Rowland and C Haddonfield N J (000000)

Final rept., phase 2

AUTHOR: Hart, Gary L., Faust Jr, Richard A., Rowland, George E., Lucier,  
R. Omer

1451A3 USGRDR

12 Oct 64 2p

REPT NO: r and C-64-19 vol. 1

CONTRACT: DA19 129QM2076N

PROJECT: 7X95 01 001

ABSTRACT: The final conclusions relating to attitudes of troops stationed in tropical environments are presented. Data was collected from 2160 United States Army troops stationed in Panama, Hawaii and Okinawa, and representing a variety of branches such as Infantry, Airborne, Missile, etc. Attitudes toward specific items of Quartermaster issue are reported and interaction effects among population elements and situational variables are detailed. The data is presented in such a manner as to be of guidance value to equipment designers. (Author)

DESCRIPTORS: (\*ARMY PERSONNEL, TROPICAL REGIONS), (\*PSYCHOMETRICS, ARMY PERSONNEL), (\*HUMAN ENGINEERING, ARMED FORCES SUPPLIES), (\*ATTITUDES, ARMY PERSONNEL), PROJECTIVE TECHNIQUES, ACCLIMATIZATION, PROTECTIVE CLOTHING, STATISTICAL DATA, TEST METHODS, PANAMA, HAWAII

IDENTIFIERS: OKINAWA, DEMOGRAPHY

AD-609 122 CFSTI Price: PC\$3.00



ATTITUDES OF TROOPS IN THE TROPICS. VOLUME TWO. METHODOLOGICAL  
IMPLICATIONS

Rowland and C Haddonfield N J (000000)

Final rept., phase 2

AUTHOR: Hart, Gary L., Faust Jr, Richard A., Rowland, George E.,  
Lucier, R. Omer

1451A2 USGRDR

12 Oct 64 2p

REPT NO: r and C-64-19 vol. 2

CONTRACT: DA19 129QM2076N

PROJECT: 7X95 10 001

ABSTRACT: The final methodological considerations and conclusions relating to the development of new attitude measuring techniques are presented. 2160 U. S. troops stationed in Panama, Hawaii and Okinawa participated in this study as subjects. Complementary 'objective' and 'projective' techniques were compared and contrasted for their efficacy in assessing the attitudes of tropical troops towards items of Quartermaster issue and situations relating to tropical military service. A novel dimensionalizing technique was developed for attitude assessment. A method for evaluating response validity by way of a Respondent Consistency Check in the Objective attitude measuring instrument was developed and tested. (Author)

DESCRIPTORS: (\*ARMY PERSONNEL, TROPICAL REGIONS), (\*PSYCHOMETRICS, ARMY PERSONNEL), (\*HUMAN ENGINEERING, ARMED FORCES SUPPLIES), (\*ATTITUDES, ARMY PERSONNEL), PROJECTIVE TECHNIQUES, ACCLIMATIZATION, PROTECTIVE CLOTHING, STATISTICAL DATA, TEST METHODS, PANAMA, HAWAII

IDENTIFIERS: OKINAWA, DEMOGRAPHY

AD-609 123 CFSTI Price: PC\$3.00



ATTITUDES OF TROOPS IN THE TROPICS. VOLUME THREE. DATA COLLECTION  
INSTRUMENTS

Rowland and C Haddonfield N J (000000)

Final rept., phase 2

AUTHOR: Hart, Gary L., Faust Jr, Richard A., Rowland, George E., Lucier,  
R. Omer

1451A1 USGRDR

12 Oct 64 2p

REPT NO: r and C-64-19 vol. 3

CONTRACT: DA19 129QM2076N

PROJECT: 7X95 01 001

ABSTRACT: Volume Three of a three-volume report is presented. Volume One contains the major body of the descriptive text pertaining to attitudinal data. Volume Two is a methodological treatise. Volume Three contains literal copies of the actual instruments which were used in the final exploratory field stage of data collection. For reasons of expediency the questionnaires and booklets used for the actual data collection were all printed on plain white paper. However, as a convenience, the copies contained herein have been color coded to assist the reader when reference is made from the text to specific instruments. Contents include: Objective tests (Osgood-type scale and Likert-type scale); Written Projective tests; Projective Pictures (written response and color response); Supportive Data Collection Techniques (Lowry-Lucier Reasoning Test Combination).

DESCRIPTORS: (\*ARMY PERSONNEL, TROPICAL REGIONS), (\*PSYCHOMETRICS, ARMY PERSONNEL), (\*HUMAN ENGINEERING, ARMED FORCES SUPPLIES), (\*ATTITUDES, ARMY PERSONNEL), PROJECTIVE TECHNIQUES, ACCLIMATIZATION, PROTECTIVE CLOTHING, STATISTICAL DATA, TEST METHODS, PANAMA, HAWAII

IDENTIFIERS: OKINAWA, DEMOGRAPHY

AD-609 124 CFSTI Price: PC\$3.00



PROJECT COLD CASE

Arctic Aeromedical Lab., Fort Wainwright, Alaska. (032 700)

Technical documentary rept.

AUTHOR: Milan, Frederick A.,  
0315F2 FLD: 6Q USGRDR6603

Feb 65 30p

REPT NO: AAL-TDR-64-23

PROJECT: AF-8238

TASK: 823801

Distribution: No limitation.

ABSTRACT: The results of Project Cold Case, an investigation of the cold land survival capabilities of Air Force pilots wearing the Full Pressure High Altitude Flying Outfit (A/P22S-2 and A/P 22S-3) are presented in this report. Six subjects wearing these garments were placed under simulated survival conditions in a wooded area of interior Alaska near Fairbanks. Ambient air temperatures reached -30 F and were below -27 F for at least 50% of the time. On the third day air temperatures rose and remained at -10 F until the conclusion of the test. The test lasted for 72 hours. Two subjects wearing the Full Pressure Suit without additional clothing survived for 11 and 30 hours. At the end of this time they were fatigued and moderately hypothermic. Two subjects with the Full Pressure Suit plus a nine-piece down-filled survival outfit (Clothing Outfit, arctic survival) survived for 52 and 72 hours. The 52-hour survivor suffered a noncold injury which necessitated his removal. Two Subjects with the Full Pressure Suit plus an experimental ADC WalkAround Sleeping Bag survived for 72 hours each. (Author)

DESCRIPTORS: (\*Flight clothing, Pressure suits), (\*Pressure suits, Cold weather tests), Flight crews, High altitude, Effectiveness, Survival, Arctic regions, Simulation

IDENTIFIERS: Cold Case project

AD-462 767 CFSTI Price: PC\$6.00



SYMPOSIUM, REVIEW OF RESEARCH ON MILITARY PROBLEMS IN COLD REGIONS

Arctic Aeromedical Lab., Fort Wainwright, Alaska. (032 700)

AUTHOR: Kolb, Charles R., Holmstrom, Fritz M. G.,

0233A3 FLD: 6S, 5J, 13B USGRDR4017

Dec 64 169p

REPT NO: AAL-TDR-64-28

Prepared for presentation at the Alaskan Science Conference (15th),  
American Association for the Advancement of Science, College, Alaska,  
31 Aug 4 Sep 64.

ABSTRACT: Contents: A philosophy for military research and development in Alaska and other Arctic Regions; Notes on the physical environment of Alaska; Major army operational problems in cold regions; Materials engineering for cold regions and the brittle fracture; Military construction problems in Alaska; Arctic and subarctic sanitation in military field operations; Trafficability of snow and muskeg; Summary of water supply problems in Alaska; Long distance radio communications in the Polar Regions; Summary of army environmental research in Alaska; Life sciences research approach to improved military effectiveness in the Arctic; The Arctic soldier: possible research solutions for his protection; Enhancing the effectiveness of the individual in the arctic through clothing and equipment; Effect of air movement on atmospheric cooling power; Effect of Arctic isolation on human performance.

DESCRIPTORS: (\*Arctic regions, Armed forces operations), (\*Military personnel, Arctic regions), Symposia, Military medicine, Military psychology, Polar regions, Alaska, Construction, Materials, Brittleness, Military facilities, Sanitary engineering, Water supplies, Communication systems, Trafficability, Protective clothing, Performance(Human), Stress(Physiology), Stress(Psychology), Snow

IDENTIFIERS: Cold tolerance

AD-457 733 CFSTI Price: PC\$5.00



Some Experiments on the Friction of Fabrics on Human Skin

Royal Aircraft Establishment Farnborough (England) (310450)

Technical rept.

AUTHOR: Swallow, J. E., Webb, M.

A5202C3 FLD: 11E, 71I USGRDR7221

Mar 72 20p

REPT NO: RAE-TR-72037

MONITOR: DRIC-BR-28659

ABSTRACT: A method is described for measuring the friction of fabrics on human skin. The effects of fabric wetness, skin hairiness, operator difference, normal load and direction of fabric threads relative to the direction of pull have been investigated for six tropical overall fabrics. (Author)

DESCRIPTORS: (\*Textiles, Skin), Friction, Humans, Tropical regions, Clothing, Effectiveness, Abrasives, Great Britain

AD-748 441 NTIS Prices: PC\$3.00/MF\$0.95





NTIS-PR-186  
May 1976

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SAMPLE ENTRY OF A CITATION FROM THE  
NTIS DATA BASE

Title \_\_\_\_\_ Industry, Innovation and the Municipal Market  
Corporate Author \_\_\_\_\_ Franklin Inst. Raseerch Labs., Philadelphie, Pe. (142 925)

Report Date \_\_\_\_\_ Final rept.  
AUTHOR: Blair, John F. Jr.  
C1872L3 FLD: 5C, 96\*, 86K USGRDR 7324  
Pages in Report \_\_\_\_\_ 15 Oct 73 103p\*  
REPT NO: FIRL-F-C3431  
PROJECT: EDA-99-6-09281  
MONITOR: EDA-73-046

Abstract or  
Technical Report  
Summary \_\_\_\_\_

ABSTRACT: The summary report is made on work done under the euspices of the Economic Davelopment Administration and funded through The Experimental Technology Incentives Program (ETIP). It delineetes the form end content of the policies and programs required to develop the municipal local government market into a force for technological innovation and economic development. In addition to this document, a series of eighteen background papers is on file that deals in considerable depth with the more important aspects of the study. This supplementary documentation is referenced in footnotes throughout the text of the summary volume.

Key Words \_\_\_\_\_

DESCRIPTORS: (\*Industrial engineering, \*Urban plenning), (\*Public administration, \*Urban development), Procurement, Reviews, Optimization, Economic development, Industrial raletions, Markating, Productivity, Systems anginaaring, Local government, Policias, Racommendations, Pennsylvenie

IDENTIFIERS: Tachnological davalopment, Innovetions, Philedalphia (Pennsylvenie), EDA

Order Number \_\_\_\_\_ COM-73-11748/3 NTIS Prices: PC\$4.25/MF \$1.45

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405806

COAL GASIFICATION FOR ELECTRIC POWER GENERATION.

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THIS NEW MULTIPLE FLUIDIZED-BED CONCEPT HAS THE POTENTIAL FOR OVERCOMING THE INHERENT LIMITATIONS OF OTHER GASIFICATION PROCESSES AND PROVIDING AN ECONOMIC GASIFICATION SYSTEM FOR POWER PLANTS. A WIDE VARIATION IN FUELS INCLUDING CAKING COALS AND HIGH-ASH COALS CAN BE USED WITHOUT COSTLY AND INEFFICIENT PRETREATMENT. THIS FLEXIBILITY WILL ALLOW POWER PLANTS TO UTILIZE LOCAL COAL RESOURCES AND MINIMIZE TRANSPORTATION COSTS. WHEN SCALE-UP PROCEDURES HAVE BEEN VERIFIED, A COMMERCIAL-SIZE GASIFIER PLANT WILL BE CONSTRUCTED. 2 REFS.

Abstract

Keywords

Journal Title



## PUBLISHED SEARCHES BY SUBJECT CATEGORY

### Administration

- Construction Management (103) Apr 75  
**NTIS/PS-75/352/5GSB**
- Replacement Theory (85) Apr 75  
**NTIS/PS-75/405/1GSB**
- Linear Programming in Management (38) May 75  
**NTIS/PS-75/406/9GSB**
- PERT (123) May 75  
**NTIS/PS-75/439/0GSB**
- Productivity (142) Jul 75  
**NTIS/PS-75/492/9GSB**
- Technology Assessment (188) Jun 75  
**NTIS/PS-75/494/5GSB**
- Mathematical Models of Manpower and Personnel Management. Vol 1. 1964-1973 (172) Jun 75  
**NTIS/PS-75/498/6GSB**
- Mathematical Models of Manpower and Personnel Management. Vol 2. 1973-May 75 (97) Jun 75  
**NTIS/PS-75/499/4GSB**
- Decision Making in Management (76) Jun 75  
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- Management Games (180) Aug 75  
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- Management Information Systems (164) Jul 75 Excludes urban information systems  
**NTIS/PS-75/601/5GSB**
- All Volunteer Military Services (154) Aug 75  
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- Urban Information Systems. Part 1. General (69) Jul 75  
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- Urban Information Systems. Part 2. USAC Reports (210) Jul 75  
**NTIS/PS-75/624/7GSB**
- Inventory Control (220) 1970-Aug 75  
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- Job Analysis Methodology (95) Aug 75  
**NTIS/PS-75/675/9GSB**
- Participative Management (102) Sep 75  
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- Job Satisfaction (295) Sep 75  
**NTIS/PS-75/708/8GSB**
- Human Work Measurement (66) Oct 75 Excludes physiological effects.  
**NTIS/PS-75/797/1GSB**
- Revenue Sharing (45) Nov 75  
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- Production Planning and Scheduling (193) Dec 75  
**NTIS/PS-75/863/1GSB**
- Design to Cost and Life Cycle Costing (190) Dec 75  
**NTIS/PS-75/875/5GSB**
- Technology Transfer: General and Theoretical Studies (121) Jan 76  
**NTIS/PS-75/884/7GSB**
- Time Series Forecasting and Prediction (117) Jan 76 Includes studies on

hydrology, meteorology, management, and energy among others  
**NTIS/PS-76/0031/5GSB**

The Role of Women In the Workforce (171) Feb 76  
**NTIS/PS-76/0103/2GSB**

Career Development. Part 1. Military Careers (224) Feb 76  
**NTIS/PS-76/0115/6GSB**

Career Development. Part 2. Civilian Careers (245) Feb 76  
**NTIS/PS-76/0116/4GSB**

### Aeronautics and Aerodynamics

Holographic Flow Visualization (53) Jan 75  
**NTIS/PS-75/115/6GSB**

Flow Visualization (106) Jan 75 Excludes shadowgraph, schlieren, and holographic techniques  
**NTIS/PS-75/116/4GSB**

Surface Effect Vehicles/Ships In Marine Environments (108) Jan 75  
**NTIS/PS-75/332/7GSB**

Surface Effect Vehicles and Surface Effect: General Studies. Vol. 1. 1964-1971 (134) Jan 75 Does not include marine environments  
**NTIS/PS-75/333/5GSB**

Surface Effect Vehicles and Surface Effect: General Studies. Vol. 2. 1972-1974 (67) Jan 75 Does not include marine environments  
**NTIS/PS-75/334/3GSB**

Airport Noise (138) Jun 75  
**NTIS/PS-75/530/6GSB**

Hot Wire Anemometry. Vol 1. 1964-1970 (71) Aug 75  
**NTIS/PS-75/662/7GSB**

Hot Wire Anemometry. Vol 2. 1971-July 1975 (87) Aug 75  
**NTIS/PS-75/663/5GSB**

Hot Film Anemometry (32) Aug 75  
**NTIS/PS-75/664/3GSB**

Collision Avoidance Systems (198) Aug 75  
**NTIS/PS-75/671/8GSB**

Boundary Layer Separation. Vol 1. 1966-1970 (127) Nov 75  
**NTIS/PS-75/814/4GSB**

Boundary Layer Separation. Vol 2. 1971-Aug 75 (115) Nov 75  
**NTIS/PS-75/815/1GSB**

Boundary Layer Transition. Vol 1. 1964-1968 (98) Nov 75  
**NTIS/PS-75/816/9GSB**

Boundary Layer Transition. Vol 2. 1969-1971 (104) Nov 75  
**NTIS/PS-75/817/7GSB**

Boundary Layer Transition. Vol 3. 1972-1975 (112) Nov 75  
**NTIS/PS-75/818/5GSB**

Shear Flow. Part 1. Liquids (152) Oct 75  
**NTIS/PS-75/819/3GSB**

Shear Flow. Part 2. Gases. Vol 1. 1964-1969 (154) Nov 75  
**NTIS/PS-75/820/1GSB**

Shear Flow. Part 2. Gases. Vol 2. 1970-November 1975 (166) Nov 75  
**NTIS/PS-75/821/9GSB**

Shear Flow. Part 3. General Studies (150) Nov 75 Excludes wind shear  
**NTIS/PS-75/822/7GSB**

Flow Reattachment (86) Nov 75  
**NTIS/PS-75/823/5GSB**

Boundary Layer Control (143) Nov 75  
**NTIS/PS-75/824/3GSB**

Wind Shear (200) Dec 75 Excludes wind effects on structures  
**NTIS/PS-75/874/8GSB**

Remotely Piloted Vehicles (85) Dec 75 Includes aircraft, drones, and extraterrestrial vehicles  
**NTIS/PS-75/876/3GSB**

Cavity Flow. Vol. 1. 1964-1970 (110) Feb 76  
**NTIS/PS-76/0040/6GSB**

Cavity Flow. Vol. 2. 1971-1975 (94) Feb 76  
**NTIS/PS-76/0041/4GSB**

Aerospace Computer Systems. Part 1. Avionic Applications (158) Jan 76  
**NTIS/PS-76/0042/2GSB**

Flight Simulator Training (175) Feb 76  
**NTIS/PS-76/0068/7GSB**

Aircraft Wake Vortices (177) Feb 76  
**NTIS/PS-76/0072/9GSB**

Aircraft Sonic Boom. Part 1. Aircraft Flight, Aircraft Design, and Measurement (119) Mar 76  
**NTIS/PS-76/0175/0GSB**

Aircraft Sonic Boom. Part 2. Effects on Buildings (64) Mar 76  
**NTIS/PS-76/0176/8GSB**

Aircraft Sonic Boom. Part 3. Biological Effects (66) Mar 76  
**NTIS/PS-76/0177/6GSB**

### Agriculture and Food

Fishery Law (126) Jan 75  
**NTIS/PS-75/111/5GSB**

Aquaculture. Part 1. Fish (212) Feb 75 Excludes studies on salmon  
**NTIS/PS-75/304/6GSB**

Aquaculture. Part 2. Shellfish (129) Feb 75  
**NTIS/PS-75/305/3GSB**

Aquaculture. Part 3. Salmon (63) Feb 75  
**NTIS/PS-75/306/1GSB**



GRAS(Generally Recognized as Safe)  
Food Ingredients (253) April 75  
**NTIS/PS-75/356/6GSB**

Medical Entomology. Vol. 2. 1970-1975  
(192) 1970-Jan 1975  
**NTIS/PS-75/360/8GSB**

Medical Entomology. Vol.1.1964-1969  
(157) 1964-1969  
**NTIS/PS-75/361/6GSB**

Food Packaging and Storage (187)  
1970-Apr 75  
**NTIS/PS-75/380/6GSB**

Sewage and Organic Waste Irrigation  
(111) May 75  
**NTIS/PS-75/460/6GSB**

Sport Fishing (150) Jun 75  
**NTIS/PS-75/468/9GSB**

Food Processing Waste Treatment (167)  
Jun 1975  
**NTIS/PS-75/484/6GSB**

Synthetic Foods (39) Jun 75 Excludes  
fish protein concentrates  
**NTIS/PS-75/493/7GSB**

Animal Waste Pollution and Its Control  
(117) Jun 75  
**NTIS/PS-75/531/4GSB**

Food Processing. Vol 2. Jul 1974-Jun  
1975 (95) Jul 75  
**NTIS/PS-75/576/9GSB**

Food Processing. Vol 1. 1964-Jul 1975  
(166) Jul 75  
**NTIS/PS-75/577/7GSB**

Fertilizers (198) Jul 75 Excludes water  
pollution studies  
**NTIS/PS-75/599/1GSB**

Agricultural Resources Surveys (81)  
Aug 75  
**NTIS/PS-75/668/4GSB**

Oyster Utilization, Biology, and Growth  
(205) Sep 75  
**NTIS/PS-75/718/7GSB**

Food Taste (161) Oct 75  
**NTIS/PS-75/734/4GSB**

Ground Water Pollution. Part 2. Pollu-  
tion From Irrigation and Fertilization  
(178) Sep 75  
**NTIS/PS-75/740/1GSB**

Fish Protein Concentrates (140) Dec 75  
**NTIS/PS-75/862/3GSB**

Fishway Design and Operation (65) Dec  
75  
**NTIS/PS-75/868/0GSB**

Fisheries Economics. Part 1. Marketing  
(113) Dec 75  
**NTIS/PS-75/882/1GSB**

Fisheries Economics. Part 2. General  
Economic Studies (220) Dec 75  
**NTIS/PS-75/883/9GSB**

Material Shortages (136) Jan 76 In-  
cludes agricultural products, metals,  
minerals, and other materials except  
fuels  
**NTIS/PS-76/0006/7GSB**

Air Pollution Effects on Plants (173)  
Dec 75  
**NTIS/PS-76/0015/8GSB**

## **Astronomy and Astrophysics**

Cosmic Rays (129) 1973-Jan 75  
**NTIS/PS-75/134/7GSB**

Mars Environment (146) 1971-Sep 75  
**NTIS/PS-75/752/6GSB**

Cosmology (113) Mar 76  
**NTIS/PS-76/0126/3GSB**

Solar Eclipses (150) Mar 76  
**NTIS/PS-76/0131/3GSB**

Quasars, Pulsars and Black Holes (205)  
Mar 76  
**NTIS/PS-76/0134/7GSB**

## **Atmospheric Sciences**

Automobile Air Pollution. Part 6. At-  
mospheric Motion (42) 1970-Dec 74  
**NTIS/PS-75/314/5GSB**

Cloud Seeding (231) Apr 75 Includes  
effects on water resources  
**NTIS/PS-75/395/4GSB**

Atmospheric Modeling of Air Pollution  
(140) May 75 Excludes stratospher-  
ic studies  
**NTIS/PS-75/476/2GSB**

Precipitation Washout (73) Jun 75 In-  
cludes radioactive, pollution, and  
aerosol washout studies  
**NTIS/PS-75/517/3GSB**

Chemical Analysis of Aerosols and Air-  
borne Particulates (102) Jun 75 Ex-  
cludes sampling and particle size  
analysis  
**NTIS/PS-75/527/2GSB**

Nitrogen Oxide Air Pollution. Part 3. At-  
mospheric Chemistry (81) Jul 75  
**NTIS/PS-75/609/8GSB**

Atmospheric Echo Sounding (58) Aug  
75  
**NTIS/PS-75/641/1GSB**

Atmospheric Effects on Laser Beams  
(227) Aug 75  
**NTIS/PS-75/670/0GSB**

Weather Modification Effects and  
Management (117) Sep 75 Ex-  
cludes theory and physics of cloud  
seeding and nucleation  
**NTIS/PS-75/722/9GSB**

Fog Dispersal (177) Oct 75  
**NTIS/PS-75/750/0GSB**

Clear Air Turbulence (232) Oct 75  
**NTIS/PS-75/761/7GSB**

Ice Fog (45) Oct 75  
**NTIS/PS-75/770/8GSB**

Paleoclimatology (66) Nov 75  
**NTIS/PS-75/851/6GSB**

Wind Effects. Part 1. Buildings and  
Bridges (83) Dec 75  
**NTIS/PS-75/870/6GSB**

Wind Effects. Part 2. General Structures  
(67) Dec 75 Excludes buildings and  
bridges  
**NTIS/PS-75/871/4GSB**

Wind Shear (200) Dec 75 Excludes  
wind effects on structures  
**NTIS/PS-75/874/8GSB**

Hurricanes: Forecasting, Modification,  
and Research (211) Jan 76  
**NTIS/PS-76/0027/3GSB**

The Chemistry and Physics of Ozone in  
the Stratosphere (142) Jan 76  
**NTIS/PS-76/0029/9GSB**

Ice and Fog: Detection and Warning  
Systems (91) Feb 76  
**NTIS/PS-76/0096/8GSB**

Solar Eclipses (150) Mar 76  
**NTIS/PS-76/0131/3GSB**

Air Pollution Tracer Studies in the  
Lower Atmosphere (55) Mar 76  
**NTIS/PS-76/0144/6GSB**

## **Behavior and Society**

Probation and Parole (55) Jan 75  
**NTIS/PS-75/145/3GSB**

Drug Abuse (113) Jan 75  
**NTIS/PS-75/147/9GSB**

Attitudes, Opinions, and Motivations  
among Adolescents (186) Feb 75  
**NTIS/PS-75/232/9GSB**

Migrant Workers (38) Jan 75  
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Forensic Medicine (39) Jan 75  
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Social Change (147) Feb 75  
**NTIS/PS-75/266/7GSB**

Human Aggression (41) Feb 75  
**NTIS/PS-75/281/6GSB**

Labor Relations (169) Feb 75 Excludes  
job satisfaction, bargaining, and  
productivity  
**NTIS/PS-75/290/7GSB**

Human Memory (130) Feb 75  
**NTIS/PS-75/297/2GSB**

Work Attitudes in the Military (98) Feb  
75  
**NTIS/PS-75/298/0GSB**

Work Attitudes in the Civilian Sector  
(178) Feb 75  
**NTIS/PS-75/300/4GSB**

Population Mobility (127) Feb 75  
**NTIS/PS-75/323/6GSB**

Simulators in Education and Training  
(99) Feb 75  
**NTIS/PS-75/335/0GSB**

Adult Education (98) Feb 75  
**NTIS/PS-75/358/2GSB**

Public Opinion and Sociology of Water  
Resource Development (82) 1970-  
Apr 75  
**NTIS/PS-75/373/1GSB**

Arms Control (234) Apr 75  
**NTIS/PS-75/393/9GSB**

Crimes and Crime Prevention (134) May  
75  
**NTIS/PS-75/425/9GSB**

Blindness (113) May 75  
**NTIS/PS-75/427/5GSB**

Police (200) Jun 75  
**NTIS/PS-75/443/2GSB**

Drinking Drivers (91) Jun 75  
**NTIS/PS-75/505/8GSB**

Alcoholism (95) Jun-75 Excludes drink-  
ing drivers  
**NTIS/PS-75/506/6GSB**

The Elderly (174) Jun 75  
**NTIS/PS-75/548/8GSB**

Computer Aided Instruction. Vol 2. 1974-  
May 1975 (75) Jul 75  
**NTIS/PS-75/556/1GSB**



- Computer Aided Instruction. Vol 1. 1970-1974 (217) Jul 75  
**NTIS/PS-75/557/9GSB**
- Water Rights and Water Law. Vol 2. 1974-1975 (99) July 75  
**NTIS/PS-75/558/7GSB**
- Water Rights and Water Law. Vol 1. 1964-1973 (122) July 75  
**NTIS/PS-75/559/5GSB**
- Wages, Salaries, Earnings. Vol 2. 1974-May 1975 (64) Jul 75  
**NTIS/PS-75/567/8GSB**
- Wages, Salaries, and Earnings. Vol 1. 1964-1973 (168) Jul 75  
**NTIS/PS-75/568/6GSB**
- Quality of Life in the Urban Environment (166) 1970-Jun 75  
**NTIS/PS-75/570/2GSB**
- Insurance. Part 1. General, Life, and Unemployment Insurance (83) Jul 75 Excludes health and hospitalization insurance  
**NTIS/PS-75/604/9GSB**
- Insurance. Part 2. Automobile and Other Transportation Insurance (55) Jul 75  
**NTIS/PS-75/605/6GSB**
- Insurance. Part 3. Property, Housing, and Disaster Insurance (70) Jul 75  
**NTIS/PS-75/606/4GSB**
- Motor Vehicle Operator Behavior (119) Aug 75 Excludes studies on the effects of stress, alcohol, and vision characteristics  
**NTIS/PS-75/619/7GSB**
- Driver Performance under Abnormal Conditions. Physical Impairment, Drugs, Gases (43) Aug 75 Excludes alcohol effects  
**NTIS/PS-75/620/5GSB**
- Juvenile Delinquency (195) Aug 75  
**NTIS/PS-75/626/2GSB**
- Youth Programs (142) Sep 75  
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- The Use of Mass Media by Local and Regional Governments (77) Aug 75  
**NTIS/PS-75/653/6GSB**
- Housing (211) 1970-Aug 75  
**NTIS/PS-75/654/4GSB**
- Speech Intelligibility (185) Aug 75  
**NTIS/PS-75/669/2GSB**
- Population Projections for Small Areas (95) Sep 75  
**NTIS/PS-75/682/5GSB**
- Audiovisual Education (132) Sep 75  
**NTIS/PS-75/685/8GSB**
- Crime Prevention and Enforcement Through Community Relations (88) Sep 75  
**NTIS/PS-75/695/7GSB**
- Civil Insurgency (97) Sep 75  
**NTIS/PS-75/700/5GSB**
- American Indians (140) Sep 75  
**NTIS/PS-75/703/9GSB**
- Job Satisfaction (295) Sep 75  
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- Rehabilitation of Criminal and Public Offenders (134) Oct 75  
**NTIS/PS-75/711/2GSB**
- Ocean Law (163) Sep 75  
**NTIS/PS-75/712/0GSB**
- Family Counseling (54) Oct 75  
**NTIS/PS-75/720/3GSB**
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- Riots and Riot Control (127) Sep 75  
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- Crime and Law Enforcement in Transportation Systems (48) Sep 75  
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**NTIS/PS-75/747/6GSB**
- Volunteers in Social and Community Affairs (51) Oct 75  
**NTIS/PS-75/754/2GSB**
- Behavior and Psychology as Related to Law Enforcement (160) Oct 75  
**NTIS/PS-75/758/3GSB**
- Computational Linguistics (134) Oct 75  
**NTIS/PS-75/759/1GSB**
- Venereal Diseases (54) Aug 75  
**NTIS/PS-75/777/3GSB**
- Human Work Measurement (66) Oct 75 Excludes physiological effects.  
**NTIS/PS-75/797/1GSB**
- Intrusion and Weapon Detection: Crime Prevention (77) Nov 75 Divided into two parts- civil development and military development with civil possibilities  
**NTIS/PS-75/809/4GSB**
- Industrial Psychology (177) Nov 75  
**NTIS/PS-75/839/1GSB**
- Negroes in the U.S.-Social, Industrial, and Behavioral Interactions. Vol 1. 1965-1972 (122) Nov 75  
**NTIS/PS-75/842/5GSB**
- Negroes in the U.S.-Social, Industrial, and Behavioral Interactions. Vol 2. 1973-Sep 75 (99) Nov 75  
**NTIS/PS-75/843/3GSB**
- Information Processing in Humans. Vol 1. 1964-1973 (209) Dec 73  
**NTIS/PS-75/857/3GSB**
- Information Processing in Humans. Vol 2. 1974-Nov 75 (89) Nov 75  
**NTIS/PS-75/858/1GSB**
- Archaeology: Site Studies, Activation Analysis, Preservation, and Remote Sensing (114) Dec 75  
**NTIS/PS-75/859/9GSB**
- Natural Language Processing (199) Dec 75  
**NTIS/PS-75/864/9GSB**
- Health Manpower (126) Nov 75 Excludes allied health personnel  
**NTIS/PS-75/866/4GSB**
- Contraceptives and Birth Control (51) Dec 75  
**NTIS/PS-75/880/5GSB**
- Social Indicators (50) Jan 76  
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- Behavior and Physiological Effects of Noise. Vol 1. 1964-1972 (199) 1964-Oct 72  
**NTIS/PS-76/0013/3GSB**
- Behavior and Physiological Effects of Noise. Vol 2. 1972-1975 (119) 1972-Dec 75  
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- Historical Background Studies of the National Park Service (193) Feb 76  
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- Rehabilitation of the Mentally Retarded (125) Feb 76  
**NTIS/PS-76/0067/9GSB**
- Flight Simulator Training (175) Feb 76  
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- Intelligence Testing (143) Feb 76  
**NTIS/PS-76/0076/0GSB**
- Effects of Fatigue on Human Behavior and Performance (121) Jan 76  
**NTIS/PS-76/0095/0GSB**
- Student Teacher Interaction (79) Feb 76  
**NTIS/PS-76/0105/7GSB**
- Driver Education (124) Mar 76  
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- Career Development. Part 1. Military Careers (224) Feb 76  
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- Career Development. Part 2. Civilian Careers (245) Feb 76  
**NTIS/PS-76/0116/4GSB**
- Outdoor Recreation (155) Mar 76 Excludes studies primarily on boating and sport fishing  
**NTIS/PS-76/0138/8GSB**
- Public Attitudes Toward Highways and Highway Transportation (93) Mar 76  
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- Deterrence and Detente (107) Mar 76  
**NTIS/PS-76/0178/4GSB**

## Biomedical Technology and Engineering

- Radiology (102) 1967-Jan 75  
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- Ultrasonics in Medicine (39) Jan 75  
**NTIS/PS-75/175/0GSB**
- Nuclear Medicine (218) Jan 75  
**NTIS/PS-75/213/9GSB**
- Ambulatory Health Care (74) Feb 75  
**NTIS/PS-75/341/8GSB**
- Electromagnetic Shielding. Vol 1. 1964-1971 (162) Apr 75  
**NTIS/PS-75/366/5GSB**
- Electromagnetic Shielding. Vol 2. 1972-1975 (78) Apr 75  
**NTIS/PS-75/367/3GSB**
- Bionics (53) May 75  
**NTIS/PS-75/396/2GSB**
- Artificial Intelligence (80) May 75  
**NTIS/PS-75/397/0GSB**
- Artificial Kidneys (182) 1968-Apr 75  
**NTIS/PS-75/418/4GSB**
- Health Care Delivery (137) May 75  
**NTIS/PS-75/419/2GSB**



Mechanical Hearts. Vol. 1. 1969-1973.  
(173) May 75  
**NTIS/PS-75/423/4GSB**

Mechanical Hearts. Vol. 2. 1974-1975.  
(77) May 75  
**NTIS/PS-75/424/2GSB**

Blindness (113) May 75  
**NTIS/PS-75/427/5GSB**

Artificial Limbs (115) 1968-May 75  
**NTIS/PS-75/438/2GSB**

Biocompatible Materials. Vol. 1. 1964-1973 (147) 1964-1973  
**NTIS/PS-75/487/9GSB**

Biocompatible Materials. Vol. 2. 1974-June 1975 (96) 1974-June 75  
**NTIS/PS-75/488/7GSB**

Preventive Medicine (107) Jun 75  
**NTIS/PS-75/502/5GSB**

Computer Technology in Medicine (192) 1972-Jun 7  
**NTIS/PS-75/507/4GSB**

Cryobiology (106) Jun-75  
**NTIS/PS-75/508/2GSB**

Health Services in Rural Areas (87) Jun 75  
**NTIS/PS-75/532/2GSB**

Telecommunications in Medicine (36) Jul 75  
**NTIS/PS-75/580/1GSB**

Anthropometry (203) Aug 75  
**NTIS/PS-75/629/6GSB**

The Use of Mass Media by Local and Regional Governments (77) Aug 75  
**NTIS/PS-75/653/6GSB**

Robots (103) Sep 75  
**NTIS/PS-75/731/0GSB**

Underwater Breathing Apparatus (147) Oct 75  
**NTIS/PS-75/774/0GSB**

Blood Preservation and Storage. Vol. 1. 1964-1973 (169) Oct 75  
**NTIS/PS-75/778/1GSB**

Blood Preservation and Storage. Vol. 2. 1974-1975 (52) Oct 75  
**NTIS/PS-75/779/9GSB**

Medicare and Medicaid Programs--Utilization and Evaluation (88) Oct 75  
**NTIS/PS-75/780/7GSB**

Signs and Display Systems: Graphic Design and Human Engineering (107) Nov 75 Signs and Display Systems: Graphic Design and Human Engineering  
**NTIS/PS-75/791/4GSB**

Biotelemetry (155) Nov 75  
**NTIS/PS-75/855/7GSB**

Health Manpower (126) Nov 75 Excludes allied health personnel  
**NTIS/PS-75/866/4GSB**

Color Vision Jan 76  
**NTIS/PS-76/0059/6GSB**

Night Vision and Dark Adaptation (98) Feb 76  
**NTIS/PS-76/0133/9GSB**

## Building Technology

Structural Foundations in Soils, Ice, Snow, and Permafrost. Vol. 1. 1964-1971 (135) Jan 75 Excludes subway and seabed construction  
**NTIS/PS-75/282/4GSB**

Structural Foundations in Soils, Ice, Snow, and Permafrost. Vol. 2. 1972-1974 (57) Jan 75 Excludes subway and seabed construction  
**NTIS/PS-75/283/2GSB**

Construction Management (103) Apr 75  
**NTIS/PS-75/352/5GSB**

Architectural Construction Materials. Part 1. Non Concrete (189) May 75 Excludes concretes, bridges, pavements, airfields, cold weather construction, composites, and earthquake resistant construction  
**NTIS/PS-75/389/7GSB**

Architectural Construction Materials. Part 2. Concrete and Cement (127) May 75 Excludes non-concretes, bridges, pavements, airfields, cold weather construction, composites, and earthquake resistant construction  
**NTIS/PS-75/390/5GSB**

Construction Equipment (174) May 75 Excludes translations  
**NTIS/PS-75/391/3GSB**

Cold Weather Construction (99) May 75 Excludes permafrost construction  
**NTIS/PS-75/394/7GSB**

Structural Mechanics Software (185) May 75  
**NTIS/PS-75/428/3GSB**

Stress Crack Phenomena (186) Jun 75 Excludes rock mechanics and mathematical analysis  
**NTIS/PS-75/465/5GSB**

Mathematical Analysis of Stress Cracks. Vol 1. 1964-1973 (207) June 75  
**NTIS/PS-75/466/3GSB**

Mathematical Analysis of Stress Cracks. Vol 2. 1974-May 75 (109) June 75  
**NTIS/PS-75/467/1GSB**

Concrete Polymer Composites (90) Jun 75  
**NTIS/PS-75/475/4GSB**

Finite Elements in Structural Analysis (70) Jun 75  
**NTIS/PS-75/496/0GSB**

Industrialized Housing (183) Jul 75  
**NTIS/PS-75/571/0GSB**

Earthquake Engineering: Buildings, Bridges, Dams and Related Structures. Vol 1. (172) 1964-1973  
**NTIS/PS-75/632/0GSB**

Earthquake Engineering: Buildings, Bridges, Dams, and Related Structures. Vol.2. (127) 1974-Jul 75  
**NTIS/PS-75/633/8GSB**

Building Fires (137) Sep 75  
**NTIS/PS-75/652/8GSB**

Solar Space Heating and Air Conditioning (123) Sep 75  
**NTIS/PS-75/689/0GSB**

Fire Alarms and Fire Detectors (120) Oct 75  
**NTIS/PS-75/793/0GSB**

Pine Wood (65) Oct 75 Covers pine wood products, uses, and properties  
**NTIS/PS-75/798/9GSB**

Wood Bonding (99) Dec 75  
**NTIS/PS-75/861/5GSB**

Wind Effects. Part 1. Buildings and Bridges (83) Dec 75  
**NTIS/PS-75/870/6GSB**

Wind Effects. Part 2. General Structures (67) Dec 75 Excludes buildings and bridges  
**NTIS/PS-75/871/4GSB**

Prestressed Concrete Technology (181) Feb 76  
**NTIS/PS-76/0098/4GSB**

Particle Boards and Fiberboards: Fabrication, Use, and Properties (115) Feb 76  
**NTIS/PS-76/0157/8GSB**

Particle Boards: Fabrication, Use, and Properties. (154) Mar 76 (E1)  
**NTIS/PS-76/0158/6GSB**

Fiberboards: Fabrication, Use, and Properties. Vol. 1. 1970-1974 (223) Mar 76 (E1)  
**NTIS/PS-76/0159/4GSB**

Fiberboards: Fabrication, Use, and Properties. Vol. 2. 1975-Jan 1976 (121) Mar 76 (E1)  
**NTIS/PS-76/0160/2GSB**

Aircraft Sonic Boom. Part 2. Effects on Buildings (64) Mar 76  
**NTIS/PS-76/0176/8GSB**

## Business and Economics

Urban Financing and Taxation (95) Jan 75 Excludes financing of transportation and pollution control  
**NTIS/PS-75/199/0GSB**

Financing Urban Transportation. Part 1. General Studies (65) 1970-Jan 75  
**NTIS/PS-75/200/6GSB**

Financing Urban Transportation. Part 2. Local Studies (95) 1970-Jan 75  
**NTIS/PS-75/201/4GSB**

Financing and Taxation For Urban Control of Pollution (111) Jan 75  
**NTIS/PS-75/202/2GSB**

Housing Taxation and Financing by the Federal, State, and Local Governments (87) Jan 75  
**NTIS/PS-75/203/0GSB**

Labor Relations (169) Feb 75 Excludes job satisfaction, bargaining, and productivity  
**NTIS/PS-75/290/7GSB**

Telecommunications--Economic Studies (66) May 75  
**NTIS/PS-75/400/2GSB**

Economic Models. Vol 1. 1964-Apr 1974 (161) May 75  
**NTIS/PS-75/407/7GSB**

Economic Models. Vol 2. Apr 1974-Apr 1975 (140) May 75  
**NTIS/PS-75/408/5GSB**

Consumer Products and Consumer Affairs (41) May 75  
**NTIS/PS-75/409/3GSB**

Noise Pollution Economics (27) Jun 75  
**NTIS/PS-75/534/8GSB**



Air Pollution Economics (240) Jun 75  
NTIS/PS-75/535/5GSB

Solid Waste Disposal Economics (101)  
Jun 75  
NTIS/PS-75/536/3GSB

Water Pollution Economics (280) Jun  
75 Excludes sewage treatment  
NTIS/PS-75/537/1GSB

Wages, Salaries, Earnings. Vol 2. 1974-  
May 1975 (64) Jul 75  
NTIS/PS-75/567/8GSB

Wages, Salaries, and Earnings. Vol 1.  
1964-1973 (168) Jul 75  
NTIS/PS-75/568/6GSB

Insurance. Part 1. General, Life, and  
Unemployment Insurance (83) Jul 75  
Excludes health and hospitaliza-  
tion insurance  
NTIS/PS-75/604/9GSB

Insurance. Part 2. Automobile and Other  
Transportation Insurance (55) Jul  
75  
NTIS/PS-75/605/6GSB

Insurance. Part 3. Property, Housing,  
and Disaster Insurance (70) Jul 75  
NTIS/PS-75/606/4GSB

Effects of Inflation (70) Aug 75  
NTIS/PS-75/637/9GSB

Development of Forest Industries (109)  
Nov 75  
NTIS/PS-75/827/6GSB

Revenue Sharing (45) Nov 75  
NTIS/PS-75/840/9GSB

Minority Business (89) Nov 75 Ex-  
cludes regional and socioeconomic  
studies  
NTIS/PS-75/845/8GSB

Economic Development of Ethnic  
Minorities (122) Dec 75  
NTIS/PS-75/853/2GSB

Federal Individual Income Tax Return  
Data by ZIP Code Dec 75  
NTIS/PS-75/867/2GSB

Fisheries Economics. Part 1. Marketing  
(113) Dec 75  
NTIS/PS-75/882/1GSB

Fisheries Economics. Part 2. General  
Economic Studies (220) Dec 75  
NTIS/PS-75/883/9GSB

Material Shortages (136) Jan 76 In-  
cludes agricultural products, metals,  
minerals, and other materials except  
fuels  
NTIS/PS-76/0006/7GSB

Federal Trade Commission Advertising  
Substantiation Program (212) Jan  
76  
NTIS/PS-76/0030/7GSB

## Chemistry

Gas Scrubbers (156) Dec 74  
NTIS/PS-75/163/6GSB

Mercury Pollution (113) Dec 74 Ex-  
cludes toxicity and pollution effects  
NTIS/PS-75/209/7GSB

Hazardous Material Waste Disposal (92)  
Dec 74 Excludes radioactive wastes  
NTIS/PS-75/285/7GSB

Hazardous Materials Transportation  
(126) Dec 74 Excludes radioactive  
wastes  
NTIS/PS-75/286/5GSB

Chemical Analysis of Steels (110) Feb  
75  
NTIS/PS-75/289/9GSB

Automobile Air Pollution. Part 2. Ex-  
haust Analysis (33) 1970-Dec 74  
NTIS/PS-75/310/3GSB

Polytetrafluoroethylene (Teflon) (118)  
Apr 75  
NTIS/PS-75/353/3GSB

Polywater (34) Apr 75  
NTIS/PS-75/359/0GSB

Desulfurization of Coal and Petroleum  
(107) Apr 75 Excludes flue gas and  
other post-combustion sulfur con-  
trol  
NTIS/PS-75/381/4GSB

Coal Gasification and Liquefaction. Vol  
1. 1964-1973 (161) May 75  
NTIS/PS-75/385/5GSB

Coal Gasification and Liquefaction. Vol  
2. 1974-1975 (90) May 75  
NTIS/PS-75/386/3GSB

Light Detection and Ranging(LIDAR)  
(191) May 75  
NTIS/PS-75/402/8GSB

Sulfur Dioxide Control. Vol 2. 1973-May  
1975 (94) May 75 Excludes fuel  
desulfurization  
NTIS/PS-75/455/6GSB

Sulfur Dioxide Control. Vol 1. 1964-1972  
(159) May 75  
NTIS/PS-75/456/4GSB

Activated Carbon (221) May 75 In-  
cludes activated carbon treatment  
of sewage  
NTIS/PS-75/461/4GSB

Chemical Vapor Deposition (211) May  
75  
NTIS/PS-75/477/0GSB

Drag Reducing Fluids (158) 1969-Jun  
75  
NTIS/PS-75/497/8GSB

Chemical Analysis of Aerosols and Air-  
borne Particulates (102) Jun 75 Ex-  
cludes sampling and particle size  
analysis  
NTIS/PS-75/527/2GSB

Air Quality Monitoring (181) Jun 75  
NTIS/PS-75/529/8GSB

Waste Processing and Pollution in the  
Chemical and Petrochemical Indus-  
tries (212) Jun 75  
NTIS/PS-75/541/3GSB

Polycarbonates (72) Jun 75  
NTIS/PS-75/554/6GSB

Heat Resistant Plastics. Part 1. Nitrogen  
Containing Polymers (157) Jul 75  
NTIS/PS-75/560/3GSB

Heat Resistant Plastics. Part 2. Silicone,  
Borane, Halocarbon, and Other  
Polymers (170) Jul 75  
NTIS/PS-75/561/1GSB

Polycarbonates (100) Jul 75  
NTIS/PS-75/569/4GSB

Waste Treatment by Reverse Osmosis  
and Membrane Processes (117) Jul

75 Excludes desalination of natural  
waters  
NTIS/PS-75/574/4GSB

X Ray Fluorescence Analysis (223) Jul  
75  
NTIS/PS-75/584/3GSB

Electrostatic Precipitators for Air Pollu-  
tion Control (88) Jul 75  
NTIS/PS-75/587/6GSB

Liquid Crystals (202) Jul 75  
NTIS/PS-75/591/8GSB

Oil Pollution Detection and Sensing  
(176) Jul 75  
NTIS/PS-75/595/9GSB

Carborane Chemistry (194) Jul 75 Ex-  
cludes polycarbonates  
NTIS/PS-75/597/5GSB

Nitrogen Oxide Air Pollution. Part 1.  
Control Technology (191) Jul 75  
NTIS/PS-75/607/2GSB

Nitrogen Oxide Air Pollution. Part 2. De-  
tection and Analysis (137) Jul 75  
NTIS/PS-75/608/0GSB

Nitrogen Oxide Air Pollution. Part 3. At-  
mospheric Chemistry (81) Jul 75  
NTIS/PS-75/609/8GSB

Carbon and Graphite. Part 4. Graphite--  
Chemical Studies (124) Jul 75  
NTIS/PS-75/616/3GSB

Ion Selective Electrodes (66) Aug 75  
NTIS/PS-75/622/1GSB

Electrochemical Methods of Chemical  
Analysis (197) Aug 75 Excludes ion  
selective electrodes  
NTIS/PS-75/627/0GSB

Electrochemical Reactions at Surfaces  
(159) Aug 75  
NTIS/PS-75/644/5GSB

Fly Ash (171) Aug 75  
NTIS/PS-75/646/0GSB

Standard Reference Materials (141) Aug  
75  
NTIS/PS-75/667/6GSB

Lubricating Oil Analysis for Wear Moni-  
toring (53) Sep 75  
NTIS/PS-75/688/2GSB

Combustion of Plastics and Elastomers  
(80) Sep 75  
NTIS/PS-75/728/6GSB

The Synthesis and Properties of Polyu-  
rethane Resins. Vol 2. 1964-1972  
(143) Oct 75 Excludes polyurethane  
foams  
NTIS/PS-75/744/3GSB

The Synthesis and Properties of Polyu-  
rethane Resins. Vol 1. 1973-Sep  
1975 (81) Oct 75 Excludes polyu-  
rethane foams  
NTIS/PS-75/745/0GSB

Fire Resistance of Fibers and Textiles  
(170) Oct 75 Includes fiber prepara-  
tion and additives, standards, textile  
burning studies, and consumer  
aspects  
NTIS/PS-75/757/5GSB

Detection and Sampling of Combustion  
Products in Flue Gases (97) Nov 75  
NTIS/PS-75/828/4GSB



Chemical and Biological Warfare. Part 1. Detection and Warning Systems (87) Nov 75  
**NTIS/PS-75/832/6GSB**

Archaeology: Site Studies, Activation Analysis, Preservation, and Remote Sensing (114) Dec 75  
**NTIS/PS-75/859/9GSB**

Electrodialysis Desalination (117) Jan 76  
**NTIS/PS-76/0011/7GSB**

Electrodialysis Desalination (64) Jan 76 (E)  
**NTIS/PS-76/0012/5GSB**

The Chemistry and Physics of Ozone in the Stratosphere (142) Jan 76  
**NTIS/PS-76/0029/9GSB**

Water Pollution Analysis and Detection. Vol 1. 1970-June 1974 (145) Jan 76 Excludes oil spill detection and analysis  
**NTIS/PS-76/0037/2GSB**

Water Pollution Analysis and Detection. Vol 2. July 1974-January 1976 (101) Jan 76 Excludes oil spill detection and analysis  
**NTIS/PS-76/0038/0GSB**

Gas Scrubbers Used in Pollution Control (216) Jan 76  
**NTIS/PS-76/0050/5GSB**

Gas Scrubbers Used in Pollution Control. Vol 1. 1970-1973 (164) Jan 76 (E)  
**NTIS/PS-76/0051/3GSB**

Gas Scrubbers Used in Pollution Control. Vol 2. 1974-1975 (136) Jan 76 (E)  
**NTIS/PS-76/0052/1GSB**

The Chemistry of Silicone Resins (152) Jan 76  
**NTIS/PS-76/0057/0GSB**

Osmotic Desalting Membranes. Vol 1. 1964-1972 (120) Feb 76  
**NTIS/PS-76/0083/6GSB**

Osmotic Desalting Membranes. Vol 2. 1973-February 1976 (129) Feb 76  
**NTIS/PS-76/0084/4GSB**

Osmotic Desalting Membranes. Vol 1. 1970-1973 (143) Feb 76 (E)  
**NTIS/PS-76/0085/1GSB**

Osmotic Desalting Membranes. Vol 2. 1974-1975 (116) Feb 76 (E)  
**NTIS/PS-76/0086/9GSB**

Laser Raman Spectroscopy (90) 1970-Feb 76  
**NTIS/PS-76/0099/2GSB**

Laser Spectroscopy. Vol 1. 1970-1974 (126) Feb 76 Excludes Raman spectroscopy  
**NTIS/PS-76/0100/8GSB**

Laser Spectroscopy- Vol 2. 1975-February 1976 (123) Feb 76 Excludes Raman spectroscopy  
**NTIS/PS-76/0101/6GSB**

Acrylic Resins. Part 1. Acrylonitrile Polymers (86) Mar 76 Covers fabrication, polymerization, and properties  
**NTIS/PS-76/0147/9GSB**

Acrylic Resins. Part 1. Acrylonitrile Polymers--1975 (115) Mar 76 (E)  
**NTIS/PS-76/0148/7GSB**

Acrylic Resins. Part 2. Methacrylate Polymers Mar 76 Covers fabrication, polymerization, and properties  
**NTIS/PS-76/0149/5GSB**

Acrylic Resins. Part 2. Methacrylate Polymers--1975 (177) Mar 76 (E)  
**NTIS/PS-76/0150/3GSB**

Acrylic Resins. Part 3. Acrylates, Acrylamides, and General Studies (138) Mar 76 Covers fabrication, polymerization, and properties  
**NTIS/PS-76/0151/1GSB**

Acrylic Resins. Part 3. Acrylates, Acrylamides, and General Studies (153) Mar 76 (E)  
**NTIS/PS-76/0152/9GSB**

Fluidized Bed Combustion (138) Mar 76  
**NTIS/PS-76/0161/0GSB**

Fluidized Bed Combustion (136) Mar 76 (E)  
**NTIS/PS-76/0162/8GSB**

Corrosion in Desalination Plants (158) Mar 76  
**NTIS/PS-76/0173/5GSB**

Corrosion in Desalination Plants (117) Mar 76 (E)  
**NTIS/PS-76/0174/3GSB**

## Civil and Structural Engineering

Foundations in Marine Environments (64) Dec 74  
**NTIS/PS-75/255/0GSB**

Structural Foundations in Soils, Ice, Snow, and Permafrost. Vol. 1. 1964-1971 (135) Jan 75 Excludes subway and seabed construction  
**NTIS/PS-75/282/4GSB**

Structural Foundations in Soils, Ice, Snow, and Permafrost. Vol. 2. 1972-1974 (57) Jan 75 Excludes subway and seabed construction  
**NTIS/PS-75/283/2GSB**

Construction Management (103) Apr 75  
**NTIS/PS-75/352/5GSB**

Soil Compaction/Consolidation (181) Apr 75  
**NTIS/PS-75/365/7GSB**

Electromagnetic Shielding. Vol 1. 1964-1971 (162) Apr 75  
**NTIS/PS-75/366/5GSB**

Electromagnetic Shielding. Vol 2. 1972-1975 (78) Apr 75  
**NTIS/PS-75/367/3GSB**

Architectural Construction Materials. Part 1. Non Concrete (189) May 75 Excludes concretes, bridges, pavements, airfields, cold weather construction, composites, and earthquake resistant construction  
**NTIS/PS-75/389/7GSB**

Architectural Construction Materials. Part 2. Concrete and Cement (127) May 75 Excludes non-concretes, bridges, pavements, airfields, cold weather construction, composites, and earthquake resistant construction  
**NTIS/PS-75/390/5GSB**

Construction Equipment (174) May 75 Excludes translations  
**NTIS/PS-75/391/3GSB**

Cold Weather Construction (99) May 75 Excludes permafrost construction  
**NTIS/PS-75/394/7GSB**

Mathematical Analysis of Stress Cracks. Vol 1. 1964-1973 (207) June 75  
**NTIS/PS-75/466/3GSB**

Mathematical Analysis of Stress Cracks. Vol 2. 1974-May 75 (109) June 75  
**NTIS/PS-75/467/1GSB**

Erosion Control (138) May 75 Excludes soil stabilization  
**NTIS/PS-75/469/7GSB**

Soil Stabilization (167) May 75 Excludes erosion control  
**NTIS/PS-75/470/5GSB**

Concrete Polymer Composites (90) Jun 75  
**NTIS/PS-75/475/4GSB**

Airfield Pavements. Vol 1. 1964-1970 (159) Jun 75  
**NTIS/PS-75/518/1GSB**

Airfield Pavements. Vol 2. 1971-1972 (123) Jun 75  
**NTIS/PS-75/519/9GSB**

Airfield Pavements. Vol 3. 1973-1975 (111) Jun 75  
**NTIS/PS-75/520/7GSB**

Tunnel Construction (180) Jul 75  
**NTIS/PS-75/550/4GSB**

Flood Control (258) 1972-Jun 75  
**NTIS/PS-75/552/0GSB**

Breakwaters (186) Jun 75  
**NTIS/PS-75/553/8GSB**

Earthquake Engineering: Buildings, Bridges, Dams and Related Structures. Vol 1. (172) 1964-1973  
**NTIS/PS-75/632/0GSB**

Earthquake Engineering: Buildings, Bridges, Dams, and Related Structures. Vol.2. (127) 1974-Jul 75  
**NTIS/PS-75/633/8GSB**

Flexible Highway Pavements. Vol 1. 1964-1969 (245) Aug 75 Excludes bridge decks, landing fields and concrete pavements  
**NTIS/PS-75/672/6GSB**

Flexible Highway Pavements. Vol 2. 1970-1974 (299) Aug 75 Excludes bridge decks, landing fields and concrete pavements  
**NTIS/PS-75/673/4GSB**

Flexible Highway Pavements. Vol 3. 1975 (41) Aug 75 Excludes bridge decks, landing fields and concrete pavements  
**NTIS/PS-75/674/2GSB**

Concrete(Rigid) Highway Pavements. Vol 1. 1964-1970 (204) Aug 75 Excludes bridge decks, landing fields and flexible pavements  
**NTIS/PS-75/677/5GSB**

Concrete(Rigid) Highway Pavements. Vol 2. 1971-1973 (131) Aug 75 Excludes bridge decks, landing fields and flexible pavements  
**NTIS/PS-75/678/3GSB**

Concrete(Rigid) Highway Pavements. Vol 3. 1974-July 1975 (61) Aug 75 Excludes bridge decks, landing fields and flexible pavements  
**NTIS/PS-75/679/1GSB**



Environmental and Ecological Effects of Dredging (136) Oct 75  
**NTIS/PS-75/755/9GSB**

Expansion Joints (65) Oct 75 Primarily covers highway and bridge expansion joints  
**NTIS/PS-75/795/5GSB**

Snow Removal and Deicing Techniques for Roads and Runways (117) Nov 75  
**NTIS/PS-75/829/2GSB**

Wind Effects. Part 1. Buildings and Bridges (83) Dec 75  
**NTIS/PS-75/870/6GSB**

Wind Effects. Part 2. General Structures (67) Dec 75 Excludes buildings and bridges  
**NTIS/PS-75/871/4GSB**

Bridges: Construction and Construction Materials (223) Dec 75  
**NTIS/PS-75/888/8GSB**

Highway Beautification (58) Jan 76  
**NTIS/PS-76/0009/1GSB**

Nondestructive Testing of Pavements and Pavement Bases (80) Jan 76  
**NTIS/PS-76/0062/0GSB**

Permafrost. Part 1. General Studies (113) Feb 76  
**NTIS/PS-76/0069/5GSB**

Permafrost. Part 2. Structural Engineering (188) Feb 76  
**NTIS/PS-76/0070/3GSB**

Permafrost Engineering (171) Feb 76  
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Prestressed Concrete Technology (181) Feb 76  
**NTIS/PS-76/0098/4GSB**

## Communication

Acoustic Surface Waves. Vol. 1. 1964-1972 (75) Jan 75  
**NTIS/PS-75/248/5GSB**

Acoustic Surface Waves. Vol. 2. 1973-1974 (137) Jan 75  
**NTIS/PS-75/249/3GSB**

Microwave Communication (163) Jan 75  
**NTIS/PS-75/250/1GSB**

Antenna Arrays. Vol 2. 1972-1974 (93) Feb 75 Excludes phased arrays  
**NTIS/PS-75/302/0GSB**

Antenna Arrays. Vol 1. 1964-1971 (219) Feb 75 Excludes phased arrays  
**NTIS/PS-75/303/8GSB**

Phased Arrays. Vol 1. 1964-1971 (141) Feb 75  
**NTIS/PS-75/337/6GSB**

Phased Arrays. Vol 2. 1972-1974 (103) Feb 75  
**NTIS/PS-75/338/4GSB**

Electromagnetic Shielding. Vol 1. 1964-1971 (162) Apr 75  
**NTIS/PS-75/366/5GSB**

Electromagnetic Shielding. Vol 2. 1972-1975 (78) Apr 75  
**NTIS/PS-75/367/3GSB**

Walsh Functions (55) Apr 75  
**NTIS/PS-75/378/0GSB**

Information and Communication Theory (124) May 75  
**NTIS/PS-75/398/8GSB**

Telecommunications--Economic Studies (66) May 75  
**NTIS/PS-75/400/2GSB**

Cable Television (75) Apr 75  
**NTIS/PS-75/404/4GSB**

Light Communication Systems (151) Apr 75  
**NTIS/PS-75/412/7GSB**

Fiber Optics (147) 1969-May 75  
**NTIS/PS-75/420/0GSB**

Microforms. Vol 1. 1964-1973 (187) Jun 75  
**NTIS/PS-75/434/1GSB**

Microforms. Vol 2. 1973-Apr 75 (74) Jun 75  
**NTIS/PS-75/435/8GSB**

Single Sideband Communications (86) Apr 75  
**NTIS/PS-75/449/9GSB**

Tropospheric Scatter Communications (98) Apr 75  
**NTIS/PS-75/459/8GSB**

Speech Recognition by Computer (168) Jun 75  
**NTIS/PS-75/495/2GSB**

Telephone Systems (202) Jun 75  
**NTIS/PS-75/516/5GSB**

Computer Networks (245) Jun 75  
**NTIS/PS-75/524/9GSB**

Land Mobile Communications (51) Jun 75  
**NTIS/PS-75/546/2GSB**

Portable Radio Equipment (65) Jun 75  
**NTIS/PS-75/547/0GSB**

Mine Safety. Part 2. Communication and Position Finding Systems (53) June 1975  
**NTIS/PS-75/563/7GSB**

Telecommunications in Medicine (36) Jul 75  
**NTIS/PS-75/580/1GSB**

Applications of the Fast Fourier Transform (181) Aug 75  
**NTIS/PS-75/645/2GSB**

Speech Intelligibility (185) Aug 75  
**NTIS/PS-75/669/2GSB**

Atmospheric Effects on Laser Beams (227) Aug 75  
**NTIS/PS-75/670/0GSB**

Vocoders (90) Aug 75  
**NTIS/PS-75/680/9GSB**

Network Flows (138) Sep 75 Includes Applied Studies  
**NTIS/PS-75/694/0GSB**

Electroluminescent Display Devices (114) Sep 75  
**NTIS/PS-75/742/7GSB**

Psycholinguistics (67) Oct 75  
**NTIS/PS-75/747/6GSB**

Frequency Standards (136) Oct 75  
**NTIS/PS-75/765/8GSB**

Underwater Voice Communication Systems (92) Oct 75  
**NTIS/PS-75/773/2GSB**

Modems (123) Oct 75  
**NTIS/PS-75/782/3GSB**

Frequency Synthesizers (87) Oct 75  
**NTIS/PS-75/790/6GSB**

Signs and Display Systems: Graphic Design and Human Engineering (107) Nov 75 Signs and Display Systems: Graphic Design and Human Engineering  
**NTIS/PS-75/791/4GSB**

Data Compression (120) Dec 75  
**NTIS/PS-75/860/7GSB**

Shift Registers (79) Dec 75  
**NTIS/PS-75/879/7GSB**

Optical Character Recognition (115) Dec 75  
**NTIS/PS-75/892/0GSB**

Impacts and Studies of the Extremely Low Frequency Communication System, Sanguine (106) Jan 76 Includes environmental and biological effects of this global communications system  
**NTIS/PS-76/0003/4GSB**

Television Systems (114) 1970-Jan 76 Excludes research on closed circuit television  
**NTIS/PS-76/0016/6GSB**

Frequency Allocation and Management (147) Jan 76  
**NTIS/PS-76/0054/7GSB**

Band Pass Filters (139) Feb 76  
**NTIS/PS-76/0145/3GSB**

Band Pass Filters (154) 1974-1975 Excludes optical filters **(E)**  
**NTIS/PS-76/0146/1GSB**

## Computers, Control and Information Theory

Interactive Computer Graphics (126) 1970-Jan 75  
**NTIS/PS-75/158/6GSB**

Microcomputers (59) Feb 75  
**NTIS/PS-75/251/9GSB**

Semiconductor Computer Storage (89) Jan 75  
**NTIS/PS-75/274/1GSB**

Computer Software Maintenance (45) Apr 75  
**NTIS/PS-75/355/8GSB**

Closed Loop Control Systems (156) April 75  
**NTIS/PS-75/364/0GSB**

Walsh Functions (55) Apr 75  
**NTIS/PS-75/378/0GSB**

Artificial Intelligence (80) May 75  
**NTIS/PS-75/397/0GSB**

Information and Communication Theory (124) May 75  
**NTIS/PS-75/398/8GSB**

Machine Translation (127) May 75 Covers several foreign languages  
**NTIS/PS-75/411/9GSB**

Computer Software Standards (53) May 75  
**NTIS/PS-75/416/8GSB**

Computer Information Security and Protection (167) May 75  
**NTIS/PS-75/437/4GSB**



Machine Automation and Numerical Control. Vol 1. 1964-1970 (226) Jun 75  
**NTIS/PS-75/480/4GSB**

Machine Automation and Numerical Control. Vol 2. 1971-1973 (166) Jun 75  
**NTIS/PS-75/481/2GSB**

Machine Automation and Numerical Control. Vol 3. 1974-Jun 75 (68) Jun 75  
**NTIS/PS-75/482/0GSB**

The Use of Computers in Solving Mathematical Problems (228) Jun 75  
**NTIS/PS-75/485/3GSB**

Computer Software Reliability (98) Jun 75  
**NTIS/PS-75/486/1GSB**

Speech Recognition by Computer (168) Jun 75  
**NTIS/PS-75/495/2GSB**

Structured Programming (51) Jun 75  
**NTIS/PS-75/501/7GSB**

Control Theory. Vol 1. 1970-1973 (202) Jun 75  
**NTIS/PS-75/503/3GSB**

Control Theory. Vol 2. 1974-Jun 75 (113) Jun 75  
**NTIS/PS-75/504/1GSB**

Computer Technology in Medicine (192) 1972-Jun 7  
**NTIS/PS-75/507/4GSB**

Pattern Recognition (184) Jun 75  
**NTIS/PS-75/514/0GSB**

Computer Networks (245) Jun 75  
**NTIS/PS-75/524/9GSB**

Computer Storage Management (129) Jun 75  
**NTIS/PS-75/528/0GSB**

Minicomputers (258) Jul 75  
**NTIS/PS-75/572/8GSB**

Programming Language Design (127) Jul 75  
**NTIS/PS-75/588/4GSB**

Automatic Programming (40) Jul 75  
**NTIS/PS-75/594/2GSB**

Applications of the Fast Fourier Transform (181) Aug 75  
**NTIS/PS-75/645/2GSB**

Trends in Computer Technology (43) Aug 75  
**NTIS/PS-75/657/7GSB**

Magnetic Bubble Domains (55) Sep 75  
**NTIS/PS-75/686/6GSB**

Network Flows (138) Sep 75 Includes Applied Studies  
**NTIS/PS-75/694/0GSB**

Integration of Partial Differential Equations (138) Sep 75  
**NTIS/PS-75/702/1GSB**

Automata Theory (159) Sep 75  
**NTIS/PS-75/707/0GSB**

Robots (103) Sep 75  
**NTIS/PS-75/731/0GSB**

Electroluminescent Display Devices (114) Sep 75  
**NTIS/PS-75/742/7GSB**

Computer Performance Evaluation (76) Oct 75  
**NTIS/PS-75/753/4GSB**

Read Only Memories (37) Nov 75  
**NTIS/PS-75/789/8GSB**

Random Access Memories (68) Nov 75  
**NTIS/PS-75/811/0GSB**

Logic Design (147) Nov 75  
**NTIS/PS-75/831/8GSB**

Data Compression (120) Dec 75  
**NTIS/PS-75/860/7GSB**

Natural Language Processing (199) Dec 75  
**NTIS/PS-75/864/9GSB**

Printers (105) Dec 75 Includes computer printers, contact printers, projection printers, and printer readers  
**NTIS/PS-75/865/6GSB**

Shift Registers (79) Dec 75  
**NTIS/PS-75/879/7GSB**

Optical Character Recognition (115) Dec 75  
**NTIS/PS-75/892/0GSB**

Parallel Processors (207) Jan 76  
**NTIS/PS-76/0022/4GSB**

Parallel Processors (227) Jan 76 (Ei)  
**NTIS/PS-76/0023/2GSB**

Optical Memories (86) Jan 76  
**NTIS/PS-76/0034/9GSB**

Aerospace Computer Systems. Part 1. Avionic Applications (158) Jan 76  
**NTIS/PS-76/0042/2GSB**

Aerospace Computer Systems. Part 2. Spacecraft and Guided Missile Applications (154) Jan 76  
**NTIS/PS-76/0043/0GSB**

Interactive Computer Graphics (204) Jan 76  
**NTIS/PS-76/0077/8GSB**

Interactive Computer Graphics (202) Jan 76 (Ei)  
**NTIS/PS-76/0078/6GSB**

Switching Circuits (209) Jan 76  
**NTIS/PS-76/0089/3GSB**

Switching Circuits (184) Jan 76 (Ei)  
**NTIS/PS-76/0090/1GSB**

Symbolic Programming (54) Mar 76  
**NTIS/PS-76/0121/4GSB**

## Detection and Countermeasures

Infrared Upconversion (48) Dec 74  
**NTIS/PS-75/075/2GSB**

Remote Sensing for Natural Resource, Environmental, and Regional Planning (91) 1973-Jan 75  
**NTIS/PS-75/104/0GSB**

Electronic Countermeasures and Electronic Counter Countermeasures (91) Jan 75  
**NTIS/PS-75/165/1GSB**

Antenna Arrays. Vol 2. 1972-1974 (93) Feb 75 Excludes phased arrays  
**NTIS/PS-75/302/0GSB**

Antenna Arrays. Vol 1. 1964-1971 (219) Feb 75 Excludes phased arrays  
**NTIS/PS-75/303/8GSB**

Seismic Detection. Part 1. General Studies (82) Jan 75 Excludes detection of nuclear events.  
**NTIS/PS-75/326/9GSB**

Seismic Detection. Part 2. Nuclear Events--1970-1972--Vol. 1. (135) Jan 75  
**NTIS/PS-75/327/7GSB**

Seismic Detection. Part 2. Nuclear Events--1973-1974--Vol. 2. (124) Jan 75  
**NTIS/PS-75/328/5GSB**

Phased Arrays. Vol 1. 1964-1971 (141) Feb 75  
**NTIS/PS-75/337/6GSB**

Phased Arrays. Vol 2. 1972-1974 (103) Feb 75  
**NTIS/PS-75/338/4GSB**

Nonlinear Acoustics (71) Apr 75  
**NTIS/PS-75/351/7GSB**

Electromagnetic Shielding. Vol 1. 1964-1971 (162) Apr 75  
**NTIS/PS-75/366/5GSB**

Electromagnetic Shielding. Vol 2. 1972-1975 (78) Apr 75  
**NTIS/PS-75/367/3GSB**

Light Detection and Ranging(LIDAR) (191) May 75  
**NTIS/PS-75/402/8GSB**

Night Vision Devices (124) Aug 75  
**NTIS/PS-75/647/8GSB**

Intrusion and Weapon Detection: Crime Prevention (77) Nov 75 Divided into two parts- civil development and military development with civil possibilities  
**NTIS/PS-75/809/4GSB**

Range Finders (114) Nov 75  
**NTIS/PS-75/812/8GSB**

Magnetometers (162) Nov 75 Includes only equipment studies  
**NTIS/PS-75/830/0GSB**

Instrumentation and Data Processing Used in the Earth Resources Technology Satellite (157) 1974-Jan 76  
**NTIS/PS-76/0055/4GSB**

Ice and Fog: Detection and Warning Systems (91) Feb 76  
**NTIS/PS-76/0096/8GSB**

## Electrotechnology

IMPATT Diodes (81) Jan 75  
**NTIS/PS-75/149/5GSB**

Phase Shifters (119) Jan 75  
**NTIS/PS-75/154/5GSB**

Gunn Effect Devices (140) Jan 75  
**NTIS/PS-75/227/9GSB**

Strip Transmission Lines (111) Jan 75  
**NTIS/PS-75/239/4GSB**

Beam Lead Microelectronics (36) Jan 75  
**NTIS/PS-75/246/9GSB**

Integrated Circuit Reliability (173) Jan 75  
**NTIS/PS-75/247/7GSB**

Acoustic Surface Waves. Vol. 1. 1964-1972 (75) Jan 75  
**NTIS/PS-75/248/5GSB**

Acoustic Surface Waves. Vol. 2. 1973-1974 (137) Jan 75  
**NTIS/PS-75/249/3GSB**



Semiconductor Computer Storage (89) Jan 75  
**NTIS/PS-75/274/1GSB**

Charge Transfer and Transferred Electron Devices (57) Jan 75  
**NTIS/PS-75/275/8GSB**

Transistor Amplifiers (93) Jan 75  
**NTIS/PS-75/288/1GSB**

Antenna Arrays. Vol 2. 1972-1974 (93) Feb 75 Excludes phased arrays  
**NTIS/PS-75/302/0GSB**

Antenna Arrays. Vol 1. 1964-1971 (219) Feb 75 Excludes phased arrays  
**NTIS/PS-75/303/8GSB**

Microwave Oscillators. Vol 1. 1964-1974 (118) Jan 75  
**NTIS/PS-75/324/4GSB**

Microwave Oscillators. Vol 2. 1972-1974 (73) Jan 75  
**NTIS/PS-75/325/1GSB**

Phased Arrays. Vol 1. 1964-1971 (141) Feb 75  
**NTIS/PS-75/337/6GSB**

Phased Arrays. Vol 2. 1972-1974 (103) Feb 75  
**NTIS/PS-75/338/4GSB**

Electromagnetic Shielding. Vol 1. 1964-1971 (162) Apr 75  
**NTIS/PS-75/366/5GSB**

Electromagnetic Shielding. Vol 2. 1972-1975 (78) Apr 75  
**NTIS/PS-75/367/3GSB**

Amorphous Semiconductors (224) Oct 73 -Dec 74  
**NTIS/PS-75/368/1GSB**

Light Emitting Diodes (159) Apr 75  
**NTIS/PS-75/415/0GSB**

Fiber Optics (147) 1969-May 75  
**NTIS/PS-75/420/0GSB**

Ferrite Microwave Electronics. Vol 1. 1964-1969 (221) Apr 75  
**NTIS/PS-75/457/2GSB**

Ferrite Microwave Electronics. Vol 2. 1970-Apr 75 (105) Apr 75  
**NTIS/PS-75/458/0GSB**

Josephson Junctions (111) Jul 75  
**NTIS/PS-75/590/0GSB**

Superconducting Magnets (137) Jul 75  
**NTIS/PS-75/636/1GSB**

Night Vision Devices (124) Aug 75  
**NTIS/PS-75/647/8GSB**

Ion Implantation (140) Aug 75  
**NTIS/PS-75/661/9GSB**

Squid Devices (59) Aug 75  
**NTIS/PS-75/687/4GSB**

Electroluminescent Display Devices (114) Sep 75  
**NTIS/PS-75/742/7GSB**

Frequency Standards (136) Oct 75  
**NTIS/PS-75/765/8GSB**

Frequency Synthesizers (87) Oct 75  
**NTIS/PS-75/790/6GSB**

Magnetometers (162) Nov 75 Includes only equipment studies  
**NTIS/PS-75/830/0GSB**

Logic Design (147) Nov 75  
**NTIS/PS-75/831/8GSB**

Radome Technology (181) Nov 75  
**NTIS/PS-75/847/4GSB**

Shift Registers (79) Dec 75  
**NTIS/PS-75/879/7GSB**

Schottky Barrier Devices (181) Jan 76  
**NTIS/PS-76/0065/3GSB**

Schottky Barrier Devices (127) 1975 (E1)  
**NTIS/PS-76/0066/1GSB**

Switching Circuits (209) Jan 76  
**NTIS/PS-76/0089/3GSB**

Switching Circuits (184) Jan 76 (E1)  
**NTIS/PS-76/0090/1GSB**

Lightning, Surge, and Transient Protection (146) Feb 76  
**NTIS/PS-76/0119/8GSB**

Electron Beam Semiconductor Devices (49) Feb 76  
**NTIS/PS-76/0122/2GSB**

Electron Beam Semiconductor Devices (55) Feb 76 (E1)  
**NTIS/PS-76/0123/0GSB**

Band Pass Filters (139) Feb 76  
**NTIS/PS-76/0145/3GSB**

Band Pass Filters (154) 1974-1975 Excludes optical filters (E1)  
**NTIS/PS-76/0146/1GSB**

Printed Circuits. Vol. 1. 1964-1971 (109) Mar 76  
**NTIS/PS-76/0154/5GSB**

Printed Circuits. Vol. 2. 1972-1975 (107) Mar 76  
**NTIS/PS-76/0155/2GSB**

Printed Circuits (108) 1975 (E1)  
**NTIS/PS-76/0156/0GSB**

## Energy

Energy Conservation (91) Jan 75  
**NTIS/PS-75/214/7GSB**

Waste Heat Utilization (116) Jan 75 Includes total energy systems  
**NTIS/PS-75/215/4GSB**

Oil Recovery (86) Jan 75 Excludes offshore drilling  
**NTIS/PS-75/254/3GSB**

Heat Pipes. Vol 1. 1964-1972 (175) Feb 75  
**NTIS/PS-75/316/0GSB**

Heat Pipes. Vol 2. 1973-1974 (122) Feb 75  
**NTIS/PS-75/317/8GSB**

Fuel Consumption. Part 2. Transportation (93) Feb 75  
**NTIS/PS-75/342/6GSB**

Fuel Consumption. Part 1. Industrial, Residential, and General Studies (75) Feb 75  
**NTIS/PS-75/343/4GSB**

Wind Power (85) Jan 75  
**NTIS/PS-75/348/3GSB**

Oil Shale (137) Apr 75  
**NTIS/PS-75/362/4GSB**

Electric Power Consumption (89) Apr 75  
**NTIS/PS-75/363/2GSB**

Pollution and Environmental Aspects of Fuel Conversion (47) Apr 75  
**NTIS/PS-75/371/5GSB**

Thermionics (119) Apr 75  
**NTIS/PS-75/372/3GSB**

Geothermal Energy (148) Apr 75  
**NTIS/PS-75/377/2GSB**

Hydrogen Energy (86) Apr 75  
**NTIS/PS-75/379/8GSB**

Desulfurization of Coal and Petroleum (107) Apr 75 Excludes flue gas and other post-combustion sulfur control  
**NTIS/PS-75/381/4GSB**

Coal Gasification and Liquefaction. Vol 1. 1964-1973 (161) May 75  
**NTIS/PS-75/385/5GSB**

Coal Gasification and Liquefaction. Vol 2. 1974-1975 (90) May 75  
**NTIS/PS-75/386/3GSB**

Nickel Cadmium Batteries (163) May 75  
**NTIS/PS-75/445/7GSB**

Magnetohydrodynamic Generators in Power Generation (105) May 75  
**NTIS/PS-75/448/1GSB**

Natural Gas. Part 1. Supply, Demand, and Utilization (97) May 75  
**NTIS/PS-75/463/0GSB**

Natural Gas. Part 2. Marine Transportation (44) May 75  
**NTIS/PS-75/464/8GSB**

Lithium Batteries (198) May 75  
**NTIS/PS-75/471/3GSB**

Lead Batteries (62) May 75 Includes lead acid batteries  
**NTIS/PS-75/472/1GSB**

Fuel Cells. Vol 1. 1969-1973 (234) Jun 75  
**NTIS/PS-75/478/8GSB**

Fuel Cells. Vol 2. 1974-Jun 75 (73) 1974-Jun 75  
**NTIS/PS-75/479/6GSB**

Cooling Towers (123) Jun 75  
**NTIS/PS-75/549/6GSB**

Silicon Solar Cells (147) Jul 75  
**NTIS/PS-75/628/8GSB**

Energy Research Planning (92) Aug 75  
**NTIS/PS-75/630/4GSB**

Silver Cells (172) Aug 75  
**NTIS/PS-75/649/4GSB**

Synthetic Fuels From Municipal, Industrial, and Agricultural Wastes (36) Aug 75  
**NTIS/PS-75/655/1GSB**

Accident Risks in Nuclear Facilities (131) Aug 75  
**NTIS/PS-75/659/3GSB**

Solar Space Heating and Air Conditioning (123) Sep 75  
**NTIS/PS-75/689/0GSB**

Solar Energy Collectors and Concentrators (117) Aug 75  
**NTIS/PS-75/690/8GSB**

Solar Electric Power Generation (144) Aug 75  
**NTIS/PS-75/691/6GSB**

Optical Coatings for Solar Cells and Solar Collectors (89) Aug 75  
**NTIS/PS-75/692/4GSB**

Cadmium Sulfide Solar Cells (181) Sep 75  
**NTIS/PS-75/693/2GSB**

Design and Applications of Flywheels (69) Sep 75  
**NTIS/PS-75/743/5GSB**



Power Plant Siting (96) Sep 75  
**NTIS/PS-75/748/4GSB**

Laser Fusion (109) Nov 75  
**NTIS/PS-75/783/1GSB**

Electron Beam Fusion (44) Nov 75  
**NTIS/PS-75/784/9GSB**

Nuclear Fusion (139) Dec 75 Excludes research sponsored by ERDA as well as that on laser and electron beam fusion  
**NTIS/PS-75/850/8GSB**

Time Series Forecasting and Prediction (117) Jan 76 Includes studies on hydrology, meteorology, management, and energy among others  
**NTIS/PS-76/0031/5GSB**

Thermal Pollution. Part 1. Control Techniques and General Studies (116) Mar 76 Excludes waste heat utilization studies  
**NTIS/PS-76/0127/1GSB**

Thermal Pollution. Part 2. Biological Effects. Vol 1. 1964-1973 (132) Mar 76  
**NTIS/PS-76/0128/9GSB**

Thermal Pollution. Part 2. Biological Effects. Vol 2. 1974-March 1976 (132) Mar 76  
**NTIS/PS-76/0129/7GSB**

Thermal Pollution. Part 3. Hydrology and Hydrodynamics (177) Mar 76  
**NTIS/PS-76/0130/5GSB**

Fluidized Bed Combustion (138) Mar 76  
**NTIS/PS-76/0161/0GSB**

## Environmental Pollution and Control

Ecosystem Models (144) Jan 74  
**NTIS/PS-75/088/5GSB**

Remote Sensing for Natural Resource, Environmental, and Regional Planning (91) 1973-Jan 75  
**NTIS/PS-75/104/0GSB**

Ecology of Insecticide Water Pollution. Vol 2. 1964-1973 (203) Jan 75  
**NTIS/PS-75/108/1GSB**

Coal Mine Waste (51) Dec 74  
**NTIS/PS-75/112/3GSB**

Gas Scrubbers (156) Dec 74  
**NTIS/PS-75/163/6GSB**

Regional and Urban Solid Waste Disposal. Part 1. Management Planning (81) Jan 75  
**NTIS/PS-75/184/2GSB**

Regional and Urban Solid Waste Disposal. Part 2. Local Case Studies (110) Jan 75  
**NTIS/PS-75/185/9GSB**

Regional and Urban Solid Waste Disposal. Part 3. Handling and Disposal Technology (84) Jan 75  
**NTIS/PS-75/186/7GSB**

Financing and Taxation For Urban Control of Pollution (111) Jan 75  
**NTIS/PS-75/202/2GSB**

Mercury Pollution (113) Dec 74 Excludes toxicity and pollution effects  
**NTIS/PS-75/209/7GSB**

Biological Effects of Mercury Pollution (112) Dec 74  
**NTIS/PS-75/210/5GSB**

Waste Heat Utilization (116) Jan 75 Includes total energy systems  
**NTIS/PS-75/215/4GSB**

Sewage Sludge Disposal (146) Dec 74  
**NTIS/PS-75/252/7GSB**

Hazardous Material Waste Disposal (92) Dec 74 Excludes radioactive wastes  
**NTIS/PS-75/285/7GSB**

Hazardous Materials Transportation (126) Dec 74 Excludes radioactive wastes  
**NTIS/PS-75/286/5GSB**

Automobile Air Pollution. Part 1. Abatement Through Management and Planning (89) 1970-Jan 75  
**NTIS/PS-75/309/5GSB**

Automobile Air Pollution. Part 2. Exhaust Analysis (33) 1970-Dec 74  
**NTIS/PS-75/310/3GSB**

Automobile Air Pollution. Part 3. Control Equipment (100) 1970-Dec 74  
**NTIS/PS-75/311/1GSB**

Automobile Air Pollution. Part 4. New Automotive Engines (60) 1970-Dec 74  
**NTIS/PS-75/312/9GSB**

Automobile Air Pollution. Part 5. Automotive Fuels (48) 1970-Dec 74  
**NTIS/PS-75/313/7GSB**

Automobile Air Pollution. Part 6. Atmospheric Motion (42) 1970-Dec 74  
**NTIS/PS-75/314/5GSB**

Incineration Studies (202) Mar 75  
**NTIS/PS-75/350/9GSB**

Aeration of Sewage Lagoons, Reservoirs, and Streams (157) Apr 75  
**NTIS/PS-75/357/4GSB**

Oil Shale (137) Apr 75  
**NTIS/PS-75/362/4GSB**

Pollution and Environmental Aspects of Fuel Conversion (47) Apr 75  
**NTIS/PS-75/371/5GSB**

Biochemical Oxygen Demand (262) Mar 75  
**NTIS/PS-75/375/6GSB**

Desulfurization of Coal and Petroleum (107) Apr 75 Excludes flue gas and other post-combustion sulfur control  
**NTIS/PS-75/381/4GSB**

Metal Processing Wastes. Part 2. Water Pollution (112) Apr 75  
**NTIS/PS-75/382/2GSB**

Metal Processing Wastes. Part 1. Air Pollution (167) Apr 75  
**NTIS/PS-75/383/0GSB**

Septic Tank Design and Use (73) Apr 75 Includes reports dealing with non-septic tank, household sewage treatment systems  
**NTIS/PS-75/388/9GSB**

Effects of Land Use and Urbanization on Water Resources (94) 1971-May 75  
**NTIS/PS-75/401/0GSB**

Air Pollution Emission Factors (69) May 75  
**NTIS/PS-75/410/1GSB**

Salt Marshes (92) May 75  
**NTIS/PS-75/426/7GSB**

Radioactivity from Nuclear Power Plants (227) May 75  
**NTIS/PS-75/429/1GSB**

Sewage Effects in Marine and Estuarine Environments (136) May 75  
**NTIS/PS-75/430/9GSB**

Water Quality Modeling--Hydrological and Limnological Systems (213) Jun 75  
**NTIS/PS-75/441/6GSB**

Highway Traffic Noise (101) May 75  
**NTIS/PS-75/444/0GSB**

Solid Waste Reclamation and Recycling. Part 1. Packaging and Containers (44) May 75 Excludes studies only dealing with specific materials  
**NTIS/PS-75/450/7GSB**

Solid Waste Reclamation and Recycling. Part 2. Plastics. (60) May 75  
**NTIS/PS-75/451/5GSB**

Solid Waste Reclamation and Recycling. Part 3. Metals (136) May 75 Includes metal recovery from aqueous industrial waste streams  
**NTIS/PS-75/452/3GSB**

Solid Waste Reclamation and Recycling. Part 4. Glass (39) May 75  
**NTIS/PS-75/453/1GSB**

Solid Waste Recycling and Reclamation. Part 5. Paper (59) May 75  
**NTIS/PS-75/454/9GSB**

Sulfur Dioxide Control. Vol 2. 1973-May 1975 (94) May 75 Excludes fuel desulfurization  
**NTIS/PS-75/455/6GSB**

Sulfur Dioxide Control. Vol 1. 1964-1972 (159) May 75  
**NTIS/PS-75/456/4GSB**

Sewage and Organic Waste Irrigation (111) May 75  
**NTIS/PS-75/460/6GSB**

Activated Carbon (221) May 75 Includes activated carbon treatment of sewage  
**NTIS/PS-75/461/4GSB**

Ocean Waste Disposal (164) May 75 Excludes thermal effluents  
**NTIS/PS-75/462/2GSB**

Atmospheric Modeling of Air Pollution (140) May 75 Excludes stratospheric studies  
**NTIS/PS-75/476/2GSB**

Food Processing Waste Treatment (167) Jun 1975  
**NTIS/PS-75/484/6GSB**

Aircraft Air Pollution (193) Jun 75 Includes studies of exhaust from supersonic aircraft and from around airports  
**NTIS/PS-75/491/1GSB**

Synthetic Foods (39) Jun 75 Excludes fish protein concentrates  
**NTIS/PS-75/493/7GSB**

Supertankers and Superports (81) Jun 75 Includes environmental considerations  
**NTIS/PS-75/510/8GSB**



- Precipitation Washout (73) Jun 75 Includes radioactive, pollution, and aerosol washout studies  
**NTIS/PS-75/517/3GSB**
- Chemical Analysis of Aerosols and Airborne Particulates (102) Jun 75 Excludes sampling and particle size analysis  
**NTIS/PS-75/527/2GSB**
- Air Quality Monitoring (181) Jun 75  
**NTIS/PS-75/529/8GSB**
- Airport Noise (138) Jun 75  
**NTIS/PS-75/530/6GSB**
- Animal Waste Pollution and Its Control (117) Jun 75  
**NTIS/PS-75/531/4GSB**
- Noise Pollution Economics (27) Jun 75  
**NTIS/PS-75/534/8GSB**
- Air Pollution Economics (240) Jun 75  
**NTIS/PS-75/535/5GSB**
- Solid Waste Disposal Economics (101) Jun 75  
**NTIS/PS-75/536/3GSB**
- Water Pollution Economics (280) Jun 75 Excludes sewage treatment  
**NTIS/PS-75/537/1GSB**
- Offshore Drilling (116) Jun 75 Includes environmental impacts  
**NTIS/PS-75/540/5GSB**
- Waste Processing and Pollution in the Chemical and Petrochemical Industries (212) Jun 75  
**NTIS/PS-75/541/3GSB**
- Oil Spill Removal (202) Jun 74  
**NTIS/PS-75/542/1GSB**
- Urban Noise Pollution (79) Jul 75  
**NTIS/PS-75/544/7GSB**
- Urban Air Pollution (172) Jul 75 Includes only studies deemed of general interest to urban planners  
**NTIS/PS-75/545/4GSB**
- Cooling Towers (123) Jun 75  
**NTIS/PS-75/549/6GSB**
- Water Rights and Water Law. Vol 2. 1974-1975 (99) July 75  
**NTIS/PS-75/558/7GSB**
- Water Rights and Water Law. Vol 1. 1964-1973 (122) July 75  
**NTIS/PS-75/559/5GSB**
- Waste Treatment by Reverse Osmosis and Membrane Processes (117) Jul 75 Excludes desalination of natural waters  
**NTIS/PS-75/574/4GSB**
- Aquatic Weed Control (93) Jul 75  
**NTIS/PS-75/581/9GSB**
- Wastewater Treatment Using Flocculation, Coagulation, and Flotation (140) Jul 75  
**NTIS/PS-75/582/7GSB**
- Sewage Filtration (113) Jul 75  
**NTIS/PS-75/583/5GSB**
- Phosphorus Removal in Sewage Treatment Systems (131) Jul 75  
**NTIS/PS-75/585/0GSB**
- Nitrogen Removal in Sewage Treatment Systems (113) Jul 75  
**NTIS/PS-75/586/8GSB**
- Electrostatic Precipitators for Air Pollution Control (88) Jul 75  
**NTIS/PS-75/587/6GSB**
- Activated Sludge Treatment (256) Jul 75 Excludes sludge disposal  
**NTIS/PS-75/589/2GSB**
- Oil Pollution Detection and Sensing (176) Jul 75  
**NTIS/PS-75/595/9GSB**
- Urban Sewage Treatment Planning (175) 1970-Jul 75  
**NTIS/PS-75/596/7GSB**
- Urban Storm Sewers and Water Runoff. Vol 2. 1974-Jun 1975. (105) Jul 75  
**NTIS/PS-75/602/3GSB**
- Urban Storm Sewers and Water Runoff. Vol 1. 1964-1973 (177) Jul 75  
**NTIS/PS-75/603/1GSB**
- Nitrogen Oxide Air Pollution. Part 1. Control Technology (191) Jul 75  
**NTIS/PS-75/607/2GSB**
- Nitrogen Oxide Air Pollution. Part 2. Detection and Analysis (137) Jul 75  
**NTIS/PS-75/608/0GSB**
- Nitrogen Oxide Air Pollution. Part 3. Atmospheric Chemistry (81) Jul 75  
**NTIS/PS-75/609/8GSB**
- Nitrogen Oxide Air Pollution. Part 4. Biological Effects (49) Jul 75  
**NTIS/PS-75/610/6GSB**
- Nitrogen Oxide Air Pollution. Part 5. Emissions Studies (225) Jul 75  
**NTIS/PS-75/611/4GSB**
- Pollution and Its Control in the Paper and Pulp Industry (167) Jul 75  
**NTIS/PS-75/638/7GSB**
- Automatic Acquisition of Water Quality Data (140) 1970-Jul 75  
**NTIS/PS-75/639/5GSB**
- DDT, DDD, and DDE Pesticides (150) Jul 75  
**NTIS/PS-75/640/3GSB**
- Fly Ash (171) Aug 75  
**NTIS/PS-75/646/0GSB**
- Synthetic Fuels From Municipal, Industrial, and Agricultural Wastes (36) Aug 75  
**NTIS/PS-75/655/1GSB**
- Accident Risks in Nuclear Facilities (131) Aug 75  
**NTIS/PS-75/659/3GSB**
- Sanitary Landfills (194) Aug 75  
**NTIS/PS-75/676/7GSB**
- Cadmium Pollution (143) Aug 75  
**NTIS/PS-75/681/7GSB**
- Network Flows (138) Sep 75 Includes Applied Studies  
**NTIS/PS-75/694/0GSB**
- Water Quality Management in Estuaries and Coastal Zones (214) Sep 75 Excludes specific biological and oceanographic studies  
**NTIS/PS-75/698/1GSB**
- Oil Water Separators (89) Sep 75 Primarily concerns ballast water and oil spill separation  
**NTIS/PS-75/710/4GSB**
- Polychlorinated Biphenyls in the Environment (52) Sep 75  
**NTIS/PS-75/713/8GSB**
- Acid Mine Drainage (150) Sep 75  
**NTIS/PS-75/714/6GSB**
- Preparation and Evaluation of Environmental Impact Statements (60) 1970-Sep 75  
**NTIS/PS-75/717/9GSB**
- Odor Pollution (186) Sep 75  
**NTIS/PS-75/723/7GSB**
- Textile Processing Wastes (72) Sep 75  
**NTIS/PS-75/729/4GSB**
- Water Resources in Arid and Semiarid Regions (68) Sep 75  
**NTIS/PS-75/737/7GSB**
- Ground Water Pollution. Part 1. General Studies (193) Sep 75 Excludes studies dealing with irrigation and fertilization  
**NTIS/PS-75/739/3GSB**
- Ground Water Pollution. Part 2. Pollution From Irrigation and Fertilization (178) Sep 75  
**NTIS/PS-75/740/1GSB**
- Ground Water Pollution. Part 3. Saline Ground Water (90) Sep 75  
**NTIS/PS-75/741/9GSB**
- Asbestos and Silicate Pollution (111) Oct 75 Includes silicosis and asbestosis  
**NTIS/PS-75/746/8GSB**
- Strip Mining (145) Oct 75  
**NTIS/PS-75/751/8GSB**
- Environmental and Ecological Effects of Dredging (136) Oct 75  
**NTIS/PS-75/755/9GSB**
- Toxicity of Pesticides (188) Oct 75  
**NTIS/PS-75/756/7GSB**
- Air Pollution Effects on Materials (82) Oct 75  
**NTIS/PS-75/760/9GSB**
- Maneuvering Aircraft: Noise Pollution and Control. (170) Oct 75 Covers takeoff, landing, and flyby noise excluding sonic boom  
**NTIS/PS-75/762/5GSB**
- Beryllium Pollution (80) Oct 75  
**NTIS/PS-75/772/4GSB**
- Shipboard Sewage Treatment (48) Oct 75  
**NTIS/PS-75/788/0GSB**
- Bioindicators of Pollution (167) Nov 75  
**NTIS/PS-75/796/3GSB**
- Industrial Health Hazards Due to Atmospheric Factors (202) 1970-Aug 75  
**NTIS/PS-75/800/3GSB**
- Detection and Sampling of Combustion Products in Flue Gases (97) Nov 75  
**NTIS/PS-75/828/4GSB**
- Environmental Carcinogens (158) Oct 75  
**NTIS/PS-75/844/1GSB**
- Ecosystem Models (214) Nov 75  
**NTIS/PS-75/846/6GSB**



- Impacts and Studies of the Extremely Low Frequency Communication System, Sanguine (106) Jan 76 Includes environmental and biological effects of this global communications system  
**NTIS/PS-76/0003/4GSB**
- Diesel Engine Exhaust (114) Jan 76  
**NTIS/PS-76/0007/5GSB**
- Electrodialysis Desalination (117) Jan 76  
**NTIS/PS-76/0011/7GSB**
- Electrodialysis Desalination (64) Jan 76 (E)  
**NTIS/PS-76/0012/5GSB**
- Behavior and Physiological Effects of Noise. Vol 1. 1964-1972 (199) 1964-Oct 72  
**NTIS/PS-76/0013/3GSB**
- Behavior and Physiological Effects of Noise. Vol 2. 1972-1975 (119) 1972-Dec 75  
**NTIS/PS-76/0014/1GSB**
- Air Pollution Effects on Plants (173) Dec 75  
**NTIS/PS-76/0015/8GSB**
- Sediment-Water Interactions and Their Effects Upon Water Quality (106) Jan 76 Excludes salt water studies  
**NTIS/PS-76/0021/6GSB**
- The Chemistry and Physics of Ozone in the Stratosphere (142) Jan 76  
**NTIS/PS-76/0029/9GSB**
- Biodeterioration of Oil Spills (99) Jan 76  
**NTIS/PS-76/0032/3GSB**
- The Biological Effects of Oil Spills (142) Jan 76 Excludes biodeterioration  
**NTIS/PS-76/0033/1GSB**
- Ecology of Insecticide Water Pollution. Vol 1. 1964-1973 (206) Jan 76  
**NTIS/PS-76/0035/6GSB**
- Ecology of Insecticide Water Pollution. Vol 2. 1974-1975 (152) Jan 76  
**NTIS/PS-76/0036/4GSB**
- Water Pollution Analysis and Detection. Vol 1. 1970-June 1974 (145) Jan 76 Excludes oil spill detection and analysis  
**NTIS/PS-76/0037/2GSB**
- Water Pollution Analysis and Detection. Vol 2. July 1974-January 1976 (101) Jan 76 Excludes oil spill detection and analysis  
**NTIS/PS-76/0038/0GSB**
- Gas Scrubbers Used in Pollution Control (216) Jan 76  
**NTIS/PS-76/0050/5GSB**
- Gas Scrubbers Used in Pollution Control. Vol 1. 1970-1973 (164) Jan 76 (E)  
**NTIS/PS-76/0051/3GSB**
- Gas Scrubbers Used in Pollution Control. Vol 2. 1974-1975 (136) Jan 76 (E)  
**NTIS/PS-76/0052/1GSB**
- Coal Mine Waste (78) Feb 76  
**NTIS/PS-76/0053/9GSB**
- Biological Productivity in Fresh Water Environments (140) Jan 76  
**NTIS/PS-76/0056/2GSB**
- Lead Pollution (247) Feb 75  
**NTIS/PS-76/0073/7GSB**
- Biological Effects of Lead Pollution (117) Feb 76  
**NTIS/PS-76/0097/6GSB**
- Bacterial Pollution of Water (206) Feb 76  
**NTIS/PS-76/0120/6GSB**
- Thermal Pollution. Part 1. Control Techniques and General Studies (116) Mar 76 Excludes waste heat utilization studies  
**NTIS/PS-76/0127/1GSB**
- Thermal Pollution. Part 2. Biological Effects. Vol 1. 1964-1973 (132) Mar 76  
**NTIS/PS-76/0128/9GSB**
- Thermal Pollution. Part 2. Biological Effects. Vol 2. 1974-March 1976 (132) Mar 76  
**NTIS/PS-76/0129/7GSB**
- Thermal Pollution. Part 3. Hydrology and Hydrodynamics (177) Mar 76  
**NTIS/PS-76/0130/5GSB**
- Air Pollution Tracer Studies in the Lower Atmosphere (55) Mar 76  
**NTIS/PS-76/0144/6GSB**
- Fluidized Bed Combustion (138) Mar 76  
**NTIS/PS-76/0161/0GSB**
- Fluidized Bed Combustion (136) Mar 76 (E)  
**NTIS/PS-76/0162/8GSB**
- Aircraft Sonic Boom. Part 1. Aircraft Flight, Aircraft Design, and Measurement (119) Mar 76  
**NTIS/PS-76/0175/0GSB**
- Aircraft Sonic Boom. Part 2. Effects on Buildings (64) Mar 76  
**NTIS/PS-76/0176/8GSB**
- Aircraft Sonic Boom. Part 3. Biological Effects (66) Mar 76  
**NTIS/PS-76/0177/6GSB**
- ## Health Planning
- Health Care Costs (110) Jan 76  
**NTIS/PS-76/0018/2GSB**
- Emergency Medical Services (160) Feb 76  
**NTIS/PS-76/0080/2GSB**
- ## Industrial and Mechanical Engineering
- Metrication in the United States (72) Dec 74  
**NTIS/PS-75/123/0GSB**
- Metal Drawing (43) Jan 75  
**NTIS/PS-75/162/8GSB**
- Use of Ultrasonics in Manufacturing Procedures (89) Dec 74  
**NTIS/PS-75/244/4GSB**
- Nondestructive Ultrasonic Testing and Inspection. Vol. 1. 1964-1971 (188) Jan 75  
**NTIS/PS-75/270/9GSB**
- Nondestructive Ultrasonic Testing and Inspection. Vol. 2. 1972-1974 (165) Jan 75  
**NTIS/PS-75/271/7GSB**
- Shipborne Containers and Containerization (100) Jan 75  
**NTIS/PS-75/284/0GSB**
- Heat Pipes. Vol 1. 1964-1972 (175) Feb 75  
**NTIS/PS-75/316/0GSB**
- Heat Pipes. Vol 2. 1973-1974 (122) Feb 75  
**NTIS/PS-75/317/8GSB**
- Electrodeposition. Vol 1. 1964-1971 (97) Jan 75  
**NTIS/PS-75/330/1GSB**
- Electrodeposition. Vol 2. 1972-1974 (110) Jan 75  
**NTIS/PS-75/331/9GSB**
- Fuel Consumption. Part 1. Industrial, Residential, and General Studies (75) Feb 75  
**NTIS/PS-75/343/4GSB**
- Machine Automation and Numerical Control. Vol 1. 1964-1970 (226) Jun 75  
**NTIS/PS-75/480/4GSB**
- Machine Automation and Numerical Control. Vol 2. 1971-1973 (166) Jun 75  
**NTIS/PS-75/481/2GSB**
- Machine Automation and Numerical Control. Vol 3. 1974-Jun 75 (68) Jun 75  
**NTIS/PS-75/482/0GSB**
- Cooling Towers (123) Jun 75  
**NTIS/PS-75/549/6GSB**
- Corrosion in Boilers (77) Jul 75  
**NTIS/PS-75/555/3GSB**
- Mine Safety. Part 2. Communication and Position Finding Systems (53) June 1975  
**NTIS/PS-75/563/7GSB**
- Standard Reference Materials (141) Aug 75  
**NTIS/PS-75/667/6GSB**
- Lubricating Oil Analysis for Wear Monitoring (53) Sep 75  
**NTIS/PS-75/688/2GSB**
- High Temperature Bearings (102) Sep 75  
**NTIS/PS-75/716/1GSB**
- Design and Applications of Flywheels (69) Sep 75  
**NTIS/PS-75/743/5GSB**
- Inert Gas Welding (113) Oct 75  
**NTIS/PS-75/764/1GSB**
- Powder Metallurgy of Titanium and Titanium Alloys (73) Oct 75  
**NTIS/PS-75/766/6GSB**
- Diffusion Bonding (142) Oct 75  
**NTIS/PS-75/771/6GSB**
- Fire Alarms and Fire Detectors (120) Oct 75  
**NTIS/PS-75/793/0GSB**
- Expansion Joints (65) Oct 75 Primarily covers highway and bridge expansion joints  
**NTIS/PS-75/795/5GSB**
- Industrial Health Hazards Due to Atmospheric Factors (202) 1970-Aug 75  
**NTIS/PS-75/800/3GSB**
- Journal Bearings (120) Oct 75  
**NTIS/PS-75/801/1GSB**



Thrust, Sleeve, and Jewel Bearings (65) Oct 75  
**NTIS/PS-75/802/9GSB**

Roller Bearings (104) Oct 75  
**NTIS/PS-75/803/7GSB**

Liquid Bearings (62) Oct 75  
**NTIS/PS-75/804/5GSB**

Ball Bearings. Vol 1. 1964-1971 (120) Oct 75  
**NTIS/PS-75/805/2GSB**

Ball Bearings. Vol 2. 1972- September 1975 (100) Oct 75  
**NTIS/PS-75/806/0GSB**

Gas Bearings. Vol 1. 1964-1970 (152) Oct 75  
**NTIS/PS-75/807/8GSB**

Gas Bearings. Vol 2. 1971-August 1975 (138) Oct 75  
**NTIS/PS-75/808/6GSB**

Cryogenic Refrigeration. Vol 1. 1964-1972 (135) Nov 75  
**NTIS/PS-75/825/0GSB**

Cryogenic Refrigeration. Vol 2. 1973-1975 (94) Nov 75  
**NTIS/PS-75/826/8GSB**

Industrial Psychology (177) Nov 75  
**NTIS/PS-75/839/1GSB**

Production Planning and Scheduling (193) Dec 75  
**NTIS/PS-75/863/1GSB**

High Energy Rate Forming. Part 1. (70) Jan 76 Excludes explosive forming  
**NTIS/PS-76/0019/0GSB**

High Energy Forming. Part 2. Explosive Forming (110) January 76  
**NTIS/PS-76/0020/8GSB**

Plasma and Flame Sprayed Coatings (146) Jan 76  
**NTIS/PS-76/0047/1GSB**

Plasma and Flame Sprayed Coatings. Vol 1. 1970-1973 (131) Jan 76  
**NTIS/PS-76/0048/9GSB**

Plasma and Flame Sprayed Coatings. Vol 2. 1974-1975 (105) Jan 76 (E)  
**NTIS/PS-76/0049/7GSB**

Superalloys. Vol 1. 1970-1973 (246) Feb 76 (E)  
**NTIS/PS-76/0107/3GSB**

Superalloys. Vol 2. 1974-1975 (179) Feb 76 (E)  
**NTIS/PS-76/0108/1GSB**

Superalloys Feb 76  
**NTIS/PS-76/0109/9GSB**

Electron Beam Welding (165) Mar 76  
**NTIS/PS-76/0136/2GSB**

Electron Beam Welding (165) 1975 (E)  
**NTIS/PS-76/0137/0GSB**

Fluid Control Devices. Vol 1. 1964-December 1971 (188) Mar 76  
**NTIS/PS-76/0139/6GSB**

Fluid Control Devices. Vol 2. 1972-February 1976 (156) Mar 76  
**NTIS/PS-76/0140/4GSB**

Fluid Control Devices (161) 1974-Feb 76 (E)  
**NTIS/PS-76/0141/2GSB**

Ferrous Metal Casting (193) Mar 76  
**NTIS/PS-76/0142/0GSB**

## Library and Information Sciences

Copyrights (56) Jan 75  
**NTIS/PS-75/146/1GSB**

User Needs in Documentation and Information (60) Jan 75  
**NTIS/PS-75/189/1GSB**

Machine Translation (127) May 75  
Covers several foreign languages  
**NTIS/PS-75/411/9GSB**

Microforms. Vol 1. 1964-1973 (187) Jun 75  
**NTIS/PS-75/434/1GSB**

Microforms. Vol 2. 1973-Apr 75 (74) Jun 75  
**NTIS/PS-75/435/8GSB**

On-line Retrieval Systems (146) Jul 75  
**NTIS/PS-75/513/2GSB**

Management Information Systems (164) Jul 75 Excludes urban information systems  
**NTIS/PS-75/601/5GSB**

Urban Information Systems. Part 1. General (69) Jul 75  
**NTIS/PS-75/623/9GSB**

Urban Information Systems. Part 2. USAC Reports (210) Jul 75  
**NTIS/PS-75/624/7GSB**

Interlibrary Loans (62) Nov 75  
**NTIS/PS-75/813/6GSB**

Natural Language Processing (199) Dec 75  
**NTIS/PS-75/864/9GSB**

Printers (105) Dec 75 Includes computer printers, contact printers, projection printers, and printer readers  
**NTIS/PS-75/865/6GSB**

Library Management (137) Dec 75  
**NTIS/PS-75/873/0GSB**

Biomedical Information Systems (178) Dec 75 Bibliographic and data information systems are included  
**NTIS/PS-75/891/2GSB**

Publishing: Methods, Analyses, and Surveys (86) Jan 76  
**NTIS/PS-76/0005/9GSB**

Records Management (235) Feb 76  
**NTIS/PS-76/0075/2GSB**

## Materials Sciences

Highway Markings (64) Dec 74  
**NTIS/PS-75/122/2GSB**

Lightweight Armor (106) Jan 75  
**NTIS/PS-75/136/2GSB**

Carbon and Graphite Materials. Part 4. Carbon Research (67) Jan 75  
**NTIS/PS-75/182/6GSB**

Cryogenic Properties of Aluminum and Aluminum Alloys (70) Jan 75  
**NTIS/PS-75/192/5GSB**

Ablation and Ablative Materials (121) Jan 75  
**NTIS/PS-75/212/1GSB**

Fracture of Ceramics (147) Dec 74  
**NTIS/PS-75/217/0GSB**

Cathodic Protection (135) Dec 74  
**NTIS/PS-75/241/0GSB**

Chemical Analysis of Steels (110) Feb 75  
**NTIS/PS-75/289/9GSB**

Electrodeposition. Vol 1. 1964-1971 (97) Jan 75  
**NTIS/PS-75/330/1GSB**

Electrodeposition. Vol 2. 1972-1974 (110) Jan 75  
**NTIS/PS-75/331/9GSB**

Polytetrafluoroethylene (Teflon) (118) Apr 75  
**NTIS/PS-75/353/3GSB**

Boron Reinforced Composites (199) 1972-May 75  
**NTIS/PS-75/414/3GSB**

Metal Matrix Composites (180) 1971-May 75  
**NTIS/PS-75/422/6GSB**

Cyanoacrylate Tissue Adhesives (48) 1964-May 75  
**NTIS/PS-75/440/8GSB**

Marine Fouling (140) 1969-Jun 75  
**NTIS/PS-75/442/4GSB**

Solid Waste Reclamation and Recycling. Part 1. Packaging and Containers (44) May 75 Excludes studies only dealing with specific materials  
**NTIS/PS-75/450/7GSB**

Solid Waste Reclamation and Recycling. Part 2. Plastics. (60) May 75  
**NTIS/PS-75/451/5GSB**

Solid Waste Reclamation and Recycling. Part 3. Metals (136) May 75 Includes metal recovery from aqueous industrial waste streams  
**NTIS/PS-75/452/3GSB**

Solid Waste Reclamation and Recycling. Part 4. Glass (39) May 75  
**NTIS/PS-75/453/1GSB**

Stress Crack Phenomena (186) Jun 75 Excludes rock mechanics and mathematical analysis  
**NTIS/PS-75/465/5GSB**

Mathematical Analysis of Stress Cracks. Vol 1. 1964-1973 (207) June 75  
**NTIS/PS-75/466/3GSB**

Mathematical Analysis of Stress Cracks. Vol 2. 1974-May 75 (109) June 75  
**NTIS/PS-75/467/1GSB**

Concrete Polymer Composites (90) Jun 75  
**NTIS/PS-75/475/4GSB**

Chemical Vapor Deposition (211) May 75  
**NTIS/PS-75/477/0GSB**

Biocompatible Materials. Vol. 1. 1964-1973 (147) 1964-1973  
**NTIS/PS-75/487/9GSB**

Biocompatible Materials. Vol. 2. 1974-June 1975 (96) 1974-Jun 75  
**NTIS/PS-75/488/7GSB**

Drag Reducing Fluids (158) 1969-Jun 75  
**NTIS/PS-75/497/8GSB**

Titanium and Titanium Alloy Creep (109) Jul 75  
**NTIS/PS-75/538/9GSB**

Polycarboranes (72) Jun 75  
**NTIS/PS-75/554/6GSB**



- Corrosion in Boilers (77) Jul 75  
**NTIS/PS-75/555/3GSB**
- Heat Resistant Plastics. Part 1. Nitrogen Containing Polymers (157) Jul 75  
**NTIS/PS-75/560/3GSB**
- Heat Resistant Plastics. Part 2. Silicone, Borane, Halocarbon, and Other Polymers (170) Jul 75  
**NTIS/PS-75/561/1GSB**
- Polycarbonates (100) Jul 75  
**NTIS/PS-75/569/4GSB**
- High Temperature Lubricants and Oils (109) Jul 75  
**NTIS/PS-75/600/7GSB**
- Carbon and Graphite. Part 1. Carbon and Graphite Fibers and Fiber Composites Vol 1 (220) 1964-1973  
**NTIS/PS-75/612/2GSB**
- Carbon and Graphite. Part 1. Carbon and Graphite Fibers and Fiber Composites Vol 2 (142) 1974-Jun 75  
**NTIS/PS-75/613/0GSB**
- Carbon and Graphite. Part 2. Carbon and Graphite Composites (174) Jul 75 Excludes fiber composites  
**NTIS/PS-75/614/8GSB**
- Carbon and Graphite. Part 3. Graphite--Physical, Mechanical, and Structural Studies (141) Jul 75  
**NTIS/PS-75/615/5GSB**
- Carbon and Graphite. Part 4. Graphite--Chemical Studies (124) Jul 75  
**NTIS/PS-75/616/3GSB**
- Carbon and Graphite. Part 5. Carbon Research (83) Jul 75 Includes studies on carbon black, chars, coke, and carbon foams  
**NTIS/PS-75/617/1GSB**
- Carbon and Graphite. Part 6. Glassy Carbon (43) Jul 75  
**NTIS/PS-75/618/9GSB**
- Foamed Plastics. Part 1. Polyurethane Foams (161) Jul 75  
**NTIS/PS-75/634/6GSB**
- Foamed Plastics. Part 2. Styrene, Silicone, Epoxy, and Other Polymeric Foams (132) Jul 75  
**NTIS/PS-75/635/3GSB**
- Fly Ash (171) Aug 75  
**NTIS/PS-75/646/0GSB**
- Standard Reference Materials (141) Aug 75  
**NTIS/PS-75/667/6GSB**
- Lubricating Oil Analysis for Wear Monitoring (53) Sep 75  
**NTIS/PS-75/688/2GSB**
- Optical Coatings for Solar Cells and Solar Collectors (89) Aug 75  
**NTIS/PS-75/692/4GSB**
- Powder Metallurgy of Aluminum (124) Sep 75  
**NTIS/PS-75/697/3GSB**
- Adhesives (154) Sep 75  
**NTIS/PS-75/704/7GSB**
- Powder Metallurgy of Iron and Steel (141) Sep 75  
**NTIS/PS-75/709/6GSB**
- Solid Lubricants (128) Sep 75  
**NTIS/PS-75/715/3GSB**
- Combustion of Plastics and Elastomers (80) Sep 75  
**NTIS/PS-75/728/6GSB**
- The Synthesis and Properties of Polyurethane Resins. Vol 2. 1964-1972 (143) Oct 75 Excludes polyurethane foams  
**NTIS/PS-75/744/3GSB**
- The Synthesis and Properties of Polyurethane Resins. Vol 1. 1973-Sep 1975 (81) Oct 75 Excludes polyurethane foams  
**NTIS/PS-75/745/0GSB**
- Hydrogen Embrittlement of Metals (230) Sep 75  
**NTIS/PS-75/749/2GSB**
- Fire Resistance of Fibers and Textiles (170) Oct 75 Includes fiber preparation and additives, standards, textile burning studies, and consumer aspects  
**NTIS/PS-75/757/5GSB**
- Air Pollution Effects on Materials (82) Oct 75  
**NTIS/PS-75/760/9GSB**
- Powder Metallurgy of Titanium and Titanium Alloys (73) Oct 75  
**NTIS/PS-75/766/6GSB**
- Diffusion Bonding (142) Oct 75  
**NTIS/PS-75/771/6GSB**
- Stress Corrosion of Steel (200) Oct 75 Excludes stainless steel  
**NTIS/PS-75/785/6GSB**
- Stress Corrosion of Stainless Steel (125) Oct 75  
**NTIS/PS-75/786/4GSB**
- Pine Wood (65) Oct 75 Covers pine wood products, uses, and properties  
**NTIS/PS-75/798/9GSB**
- Seals and Gaskets (224) 1970-Sep 75  
**NTIS/PS-75/838/3GSB**
- Wood Bonding (99) Dec 75  
**NTIS/PS-75/861/5GSB**
- Material Shortages (136) Jan 76 Includes agricultural products, metals, minerals, and other materials except fuels  
**NTIS/PS-76/0006/7GSB**
- Plasma and Flame Sprayed Coatings (146) Jan 76  
**NTIS/PS-76/0047/1GSB**
- Plasma and Flame Sprayed Coatings. Vol 1. 1970-1973 (131) Jan 76  
**NTIS/PS-76/0048/9GSB**
- Plasma and Flame Sprayed Coatings. Vol 2. 1974-1975 (105) Jan 76 (Ei)  
**NTIS/PS-76/0049/7GSB**
- The Chemistry of Silicone Resins (152) Jan 76  
**NTIS/PS-76/0057/0GSB**
- Sea Water Corrosion (208) Feb 76  
**NTIS/PS-76/0058/8GSB**
- Reinforced Plastics. Part 1. Fiberglass Reinforcement (180) Jan 76  
**NTIS/PS-76/0063/8GSB**
- Reinforced Plastics. Part 2. Boron, Carbon, and Other Reinforcing Materials (218) Feb 76  
**NTIS/PS-76/0064/6GSB**
- Turbine Blades: Erosion and Corrosion (80) Feb 76 Excludes cavitation  
**NTIS/PS-76/0081/0GSB**
- Turbine Blades: Erosion and Corrosion (108) Feb 76 Excludes cavitation (Ei)  
**NTIS/PS-76/0082/8GSB**
- Gas and Steam Turbines, General: Corrosion and Erosion (166) Feb 76 Excludes turbine blades cavitation  
**NTIS/PS-76/0087/7GSB**
- Gas and Steam Turbines, General: Corrosion and Erosion (139) Feb 76 Excludes turbine blades cavitation (Ei)  
**NTIS/PS-76/0088/5GSB**
- Lightweight Armor (123) Feb 76  
**NTIS/PS-76/0106/5GSB**
- Superalloys. Vol 1. 1970-1973 (246) Feb 76 (Ei)  
**NTIS/PS-76/0107/3GSB**
- Superalloys. Vol 2. 1974-1975 (179) Feb 76 (Ei)  
**NTIS/PS-76/0108/1GSB**
- Superalloys Feb 76  
**NTIS/PS-76/0109/9GSB**
- Detergents, Soaps, and Surface Active Cleaners (124) Feb 76 Excludes oil spill treatment chemicals and fuel additives  
**NTIS/PS-76/0110/7GSB**
- Corrosion of Stainless Steel (225) Oct 75 Excludes stress corrosion  
**NTIS/PS-76/0114/9GSB**
- Electron Beam Welding (165) Mar 76  
**NTIS/PS-76/0136/2GSB**
- Electron Beam Welding (165) 1975 (Ei)  
**NTIS/PS-76/0137/0GSB**
- Ferrous Metal Casting (193) Mar 76  
**NTIS/PS-76/0142/0GSB**
- Acrylic Resins. Part 1. Acrylonitrile Polymers (86) Mar 76 Covers fabrication, polymerization, and properties  
**NTIS/PS-76/0147/9GSB**
- Acrylic Resins. Part 1. Acrylonitrile Polymers--1975 (115) Mar 76 (Ei)  
**NTIS/PS-76/0148/7GSB**
- Acrylic Resins. Part 2. Methacrylate Polymers Mar 76 Covers fabrication, polymerization, and properties  
**NTIS/PS-76/0149/5GSB**
- Acrylic Resins. Part 2. Methacrylate Polymers--1975 (177) Mar 76 (Ei)  
**NTIS/PS-76/0150/3GSB**
- Acrylic Resins. Part 3. Acrylates, Acrylamides, and General Studies (138) Mar 76 Covers fabrication, polymerization, and properties  
**NTIS/PS-76/0151/1GSB**
- Acrylic Resins. Part 3. Acrylates, Acrylamides, and General Studies (153) Mar 76 (Ei)  
**NTIS/PS-76/0152/9GSB**
- Particle Boards and Fiberboards: Fabrication, Use, and Properties (115) Feb 76  
**NTIS/PS-76/0157/8GSB**
- Particle Boards: Fabrication, Use, and Properties. (154) Mar 76 (Ei)  
**NTIS/PS-76/0158/6GSB**



- Fiberboards: Fabrication, Use, and Properties. Vol. 1. 1970-1974 (223) Mar 76 (EI)  
NTIS/PS-76/0159/4GSB
- Fiberboards: Fabrication, Use, and Properties. Vol. 2. 1975-Jan 1976 (121) Mar 76 (EI)  
NTIS/PS-76/0160/2GSB
- Cavitation. Part 3. Corrosion and Erosion (104) Mar 76 Excludes turbine cavitation  
NTIS/PS-76/0166/9GSB
- Cavitation. Part 4. Cavitation Flow and Erosion in Turbines (70) Mar 76  
NTIS/PS-76/0167/7GSB
- Corrosion in Desalination Plants (158) Mar 76  
NTIS/PS-76/0173/5GSB
- Corrosion in Desalination Plants (117) Mar 76 (EI)  
NTIS/PS-76/0174/3GSB

## Mathematical Sciences

- Linear Programming in Management (38) May 75  
NTIS/PS-75/406/9GSB
- The Use of Computers in Solving Mathematical Problems (228) Jun 75  
NTIS/PS-75/485/3GSB
- Network Flows (138) Sep 75 Includes Applied Studies  
NTIS/PS-75/694/0GSB
- Integration of Partial Differential Equations (138) Sep 75  
NTIS/PS-75/702/1GSB
- Experimental Design (112) Oct 75  
NTIS/PS-75/776/5GSB
- Integration of Nonlinear Differential Equations (81) Nov 75  
NTIS/PS-75/794/8GSB
- Time Series Forecasting and Prediction (117) Jan 76 Includes studies on hydrology, meteorology, management, and energy among others  
NTIS/PS-76/0031/5GSB

## Medicine and Biology

- Ecosystem Models (144) Jan 74  
NTIS/PS-75/088/5GSB
- Interferon (157) Jan 75  
NTIS/PS-75/100/8GSB
- Ecology of Insecticide Water Pollution. Vol 2. 1964-1973 (203) Jan 75  
NTIS/PS-75/108/1GSB
- Drug Abuse (113) Jan 75  
NTIS/PS-75/147/9GSB
- Cold Weather Stress on Humans (72) Jan 75  
NTIS/PS-75/170/1GSB
- Radiology (102) 1967-Jan 75  
NTIS/PS-75/173/5GSB
- Ultrasonics in Medicine (39) Jan 75  
NTIS/PS-75/175/0GSB
- Prostaglandins (37) 1967-Jan 75  
NTIS/PS-75/176/8GSB
- Biological Effects of Mercury Pollution (112) Dec 74  
NTIS/PS-75/210/5GSB

- Nuclear Medicine (218) Jan 75  
NTIS/PS-75/213/9GSB
- Tumor Immunology (51) 1964-Sept 73  
NTIS/PS-75/222/0GSB
- Psychoses (85) Jan 75  
NTIS/PS-75/235/2GSB
- Hyperbaric Oxygenation (125) Jan 75  
NTIS/PS-75/236/0GSB
- Altitude Hypoxia (166) Jan 75  
NTIS/PS-75/237/8GSB
- Forensic Medicine (39) Jan 75  
NTIS/PS-75/245/1GSB
- Hemophilia (22) Jan 75  
NTIS/PS-75/260/0GSB
- Chronic Obstructive Lung Disease (24) Jan 75  
NTIS/PS-75/273/3GSB
- Underwater Medicine and Physiology (191) Jan 75  
NTIS/PS-75/278/2GSB
- Malaria. Vol 1. 1964-1970 (174) Feb 75  
NTIS/PS-75/307/9GSB
- Malaria. Vol 2. 1971-1974 (64) Feb 75  
NTIS/PS-75/308/7GSB
- Oral Diseases and Preventive Dentistry (119) Feb 75  
NTIS/PS-75/315/2GSB
- Ecology of the Marine Environment (205) Feb 75  
NTIS/PS-75/329/3GSB
- Leukemia (134) Feb 75  
NTIS/PS-75/339/2GSB
- Dental Materials and Equipment (143) Feb 75  
NTIS/PS-75/340/0GSB
- Schistosoma and Schistosomiasis (130) Feb 75  
NTIS/PS-75/344/2GSB
- Septicemia (158) Feb 75  
NTIS/PS-75/349/1GSB
- GRAS(Generally Recognized as Safe) Food Ingredients (253) April 75  
NTIS/PS-75/356/6GSB
- Medical Entomology. Vol. 2. 1970-1975 (192) 1970-Jan 1975  
NTIS/PS-75/360/8GSB
- Medical Entomology. Vol.1.1964-1969 (157) 1964-1969  
NTIS/PS-75/361/6GSB
- Hemorrhagic Shock (70) 1964 - Apr 75  
NTIS/PS-75/369/9GSB
- Biological Effects of Microwaves (112) Mar 75  
NTIS/PS-75/384/8GSB
- Toxicity of Gaseous Halocarbons (70) May 1975  
NTIS/PS-75/387/1GSB
- Artificial Kidneys (182) 1968-Apr 75  
NTIS/PS-75/418/4GSB
- Blindness (113) May 75  
NTIS/PS-75/427/5GSB
- Radioactivity from Nuclear Power Plants (227) May 75  
NTIS/PS-75/429/1GSB
- Sewage Effects in Marine and Estuarine Environments (136) May 75  
NTIS/PS-75/430/9GSB

- Cyanoacrylate Tissue Adhesives (48) 1964-May 75  
NTIS/PS-75/440/8GSB
- Psychotropic Drug Research (114) 1964-May 1975  
NTIS/PS-75/489/5GSB
- Preventive Medicine (107) Jun 75  
NTIS/PS-75/502/5GSB
- Computer Technology in Medicine (192) 1972-Jun 7  
NTIS/PS-75/507/4GSB
- Cryobiology (106) Jun-75  
NTIS/PS-75/508/2GSB
- Antineoplastic agents (195) 1970-Jun 75  
NTIS/PS-75/509/0GSB
- Sickle Cell Anemia (38) Jun 75  
NTIS/PS-75/515/7GSB
- Eutrophication. Vol 1. 1964-1973 (194) Jun 75  
NTIS/PS-75/522/3GSB
- Eutrophication. Vol 2. 1974-June 1975 (86) Jun 75  
NTIS/PS-75/523/1GSB
- Electroretinography (87) Jun 75  
NTIS/PS-75/526/4GSB
- Health Services in Rural Areas (87) Jun 75  
NTIS/PS-75/532/2GSB
- Hepatitis and Blood Transfusions (58) Jul 75  
NTIS/PS-75/543/9GSB
- Radiation Effects on Cells and Chromosomes (109) Jun 75  
NTIS/PS-75/551/2GSB
- Mine Safety. Part 3. Occupational Health--General Studies (110) Jun 75  
NTIS/PS-75/564/5GSB
- Mine Safety. Part 4. Occupational Health--Radioactivity (49) Jun 75  
NTIS/PS-75/565/2GSB
- Immunologic Diseases. Vol 2. 1975 (62) Jul 75  
NTIS/PS-75/578/5GSB
- Immunologic Diseases. Vol 1. 1964-1974 (237) Jul 75  
NTIS/PS-75/579/3GSB
- Aquatic Weed Control (93) Jul 75  
NTIS/PS-75/581/9GSB
- Nerve Regeneration (35) Jul 75  
NTIS/PS-75/592/6GSB
- Nitrogen Oxide Air Pollution. Part 4. Biological Effects (49) Jul 75  
NTIS/PS-75/610/6GSB
- Motor Vehicle Operator Behavior (119) Aug 75 Excludes studies on the effects of stress, alcohol, and vision characteristics  
NTIS/PS-75/619/7GSB
- Driver Performance under Abnormal Conditions. Physical Impairment, Drugs, Gases (43) Aug 75 Excludes alcohol effects  
NTIS/PS-75/620/5GSB
- Anthropometry (203) Aug 75  
NTIS/PS-75/629/6GSB
- DDT, DDD, and DDE Pesticides (150) Jul 75  
NTIS/PS-75/640/3GSB



- Explosives and Narcotics Detection Using Dogs (29) Sep 75  
**NTIS/PS-75/648/6GSB**
- Polychlorinated Biphenyls in the Environment (52) Sep 75  
**NTIS/PS-75/713/8GSB**
- Oyster Utilization, Biology, and Growth (205) Sep 75  
**NTIS/PS-75/718/7GSB**
- Asbestos and Silicate Pollution (111) Oct 75 Includes silicosis and asbestosis  
**NTIS/PS-75/746/8GSB**
- Toxicity of Pesticides (188) Oct 75  
**NTIS/PS-75/756/7GSB**
- Venereal Diseases (54) Aug 75  
**NTIS/PS-75/777/3GSB**
- Blood Preservation and Storage. Vol. 1. 1964-1973 (169) Oct 75  
**NTIS/PS-75/778/1GSB**
- Blood Preservation and Storage. Vol. 2. 1974-1975 (52) Oct 75  
**NTIS/PS-75/779/9GSB**
- Vaccines and Immunity (187) Oct 75  
**NTIS/PS-75/781/5GSB**
- Bioindicators of Pollution (167) Nov 75  
**NTIS/PS-75/796/3GSB**
- Transplantation Immunology (122) Oct 75  
**NTIS/PS-75/799/7GSB**
- Industrial Health Hazards Due to Atmospheric Factors (202) 1970-Aug 75  
**NTIS/PS-75/800/3GSB**
- Chemical and Biological Warfare. Part 3. Biology, Chemistry, Therapy, and Toxicology (115) Oct 75 Excludes the biochemistry and therapy of cholinesterase inhibitors  
**NTIS/PS-75/834/2GSB**
- Chemical and Biological Warfare. Part 4. Defoliants and Herbicides (126) Nov 75  
**NTIS/PS-75/835/9GSB**
- Biochemistry and Therapy of Cholinesterase Inhibitors (139) Nov 75 Primarily covers organophosphorus nerve agents  
**NTIS/PS-75/837/5GSB**
- Lung Cancer (81) Nov 74  
**NTIS/PS-75/841/7GSB**
- Environmental Carcinogens (158) Oct 75  
**NTIS/PS-75/844/1GSB**
- Ecosystem Models (214) Nov 75  
**NTIS/PS-75/846/6GSB**
- Congenital Abnormalities (79) Nov 75  
**NTIS/PS-75/849/0GSB**
- Information Processing in Humans. Vol 1. 1964-1973 (209) Dec 73  
**NTIS/PS-75/857/3GSB**
- Information Processing in Humans. Vol 2. 1974-Nov 75 (89) Nov 75  
**NTIS/PS-75/858/1GSB**
- Fish Protein Concentrates (140) Dec 75  
**NTIS/PS-75/862/3GSB**
- Shark Behavior and Biology (68) Dec 75  
**NTIS/PS-75/869/8GSB**
- Contraceptives and Birth Control (51) Dec 75  
**NTIS/PS-75/880/5GSB**
- Endangered Species (39) Dec 75  
**NTIS/PS-75/881/3GSB**
- Biofeedback (36) Dec 75  
**NTIS/PS-75/885/4GSB**
- Biological Pest Control (71) Dec 75  
**NTIS/PS-75/887/0GSB**
- Epilepsy (66) Dec 75  
**NTIS/PS-75/889/6GSB**
- Stress Factors on Pilot Performance (94) Dec 75  
**NTIS/PS-75/890/4GSB**
- Biomedical Information Systems (178) Dec 75 Bibliographic and data information systems are included  
**NTIS/PS-75/891/2GSB**
- Biological Effects of Laser Radiation (188) Dec 75  
**NTIS/PS-75/893/8GSB**
- Molecular Biology (131) Dec 75  
**NTIS/PS-76/0001/8GSB**
- Impacts and Studies of the Extremely Low Frequency Communication System, Sanguine (106) Jan 76 Includes environmental and biological effects of this global communications system  
**NTIS/PS-76/0003/4GSB**
- Auditory Perception in Cetacea (70) Jan 76  
**NTIS/PS-76/0008/3GSB**
- Behavior and Physiological Effects of Noise. Vol 1. 1964-1972 (199) 1964-Oct 72  
**NTIS/PS-76/0013/3GSB**
- Behavior and Physiological Effects of Noise. Vol 2. 1972-1975 (119) 1972-Dec 75  
**NTIS/PS-76/0014/1GSB**
- Air Pollution Effects on Plants (173) Dec 75  
**NTIS/PS-76/0015/8GSB**
- Rehabilitation of the Physically Handicapped (179) Jan 76  
**NTIS/PS-76/0028/1GSB**
- Biodeterioration of Oil Spills (99) Jan 76  
**NTIS/PS-76/0032/3GSB**
- The Biological Effects of Oil Spills (142) Jan 76 Excludes biodeterioration  
**NTIS/PS-76/0033/1GSB**
- Ecology of Insecticide Water Pollution. Vol 1. 1964-1973 (206) Jan 76  
**NTIS/PS-76/0035/6GSB**
- Ecology of Insecticide Water Pollution. Vol 2. 1974-1975 (152) Jan 76  
**NTIS/PS-76/0036/4GSB**
- Biological Productivity in Fresh Water Environments (140) Jan 76  
**NTIS/PS-76/0056/2GSB**
- Color Vision Jan 76  
**NTIS/PS-76/0059/6GSB**
- Rehabilitation of the Mentally Retarded (125) Feb 76  
**NTIS/PS-76/0067/9GSB**
- Cigarette Smoking (60) Feb 76  
**NTIS/PS-76/0074/5GSB**
- Emergency Medical Services (160) Feb 76  
**NTIS/PS-76/0080/2GSB**
- Herpes Virus (115) Feb 76  
**NTIS/PS-76/0093/5GSB**
- Effects of Fatigue on Human Behavior and Performance (121) Jan 76  
**NTIS/PS-76/0095/0GSB**
- Biological Effects of Lead Pollution (117) Feb 76  
**NTIS/PS-76/0097/6GSB**
- Burn Therapy (157) Feb 76  
**NTIS/PS-76/0104/0GSB**
- Whales (115) Feb 76  
**NTIS/PS-76/0111/5GSB**
- Cardiovascular Diseases. Vol. 1. 1964-1972 (151) 1964-1972  
**NTIS/PS-76/0117/2GSB**
- Cardiovascular Diseases. Vol. 2. 1973-1975 (179) Mar 76  
**NTIS/PS-76/0118/0GSB**
- Bacterial Pollution of Water (206) Feb 76  
**NTIS/PS-76/0120/6GSB**
- Radioimmunoassay Studies (79) Feb 76  
**NTIS/PS-76/0125/5GSB**
- Thermal Pollution. Part 2. Biological Effects. Vol 1. 1964-1973 (132) Mar 76  
**NTIS/PS-76/0128/9GSB**
- Thermal Pollution. Part 2. Biological Effects. Vol 2. 1974-March 1976 (132) Mar 76  
**NTIS/PS-76/0129/7GSB**
- Night Vision and Dark Adaptation (98) Feb 76  
**NTIS/PS-76/0133/9GSB**
- Nystagmus (209) Mar 76  
**NTIS/PS-76/0143/8GSB**
- Tumor Viruses (76) Feb 76  
**NTIS/PS-76/0172/7GSB**
- Aircraft Sonic Boom. Part 3. Biological Effects (66) Mar 76  
**NTIS/PS-76/0177/6GSB**
- Hypertension (97) Mar 76  
**NTIS/PS-76/0179/2GSB**

## Military Sciences

- Arms Control (234) Apr 75  
**NTIS/PS-75/393/9GSB**
- Replacement Theory (85) Apr 75  
**NTIS/PS-75/405/1GSB**
- All Volunteer Military Services (154) Aug 75  
**NTIS/PS-75/621/3GSB**
- Anthropometry (203) Aug 75  
**NTIS/PS-75/629/6GSB**
- Inventory Control (220) 1970-Aug 75  
**NTIS/PS-75/631/2GSB**
- Night Vision Devices (124) Aug 75  
**NTIS/PS-75/647/8GSB**
- Explosives and Narcotics Detection Using Dogs (29) Sep 75  
**NTIS/PS-75/648/6GSB**
- Guerrilla Warfare (147) Sep 75  
**NTIS/PS-75/699/9GSB**
- Civil Insurgency (97) Sep 75  
**NTIS/PS-75/700/5GSB**



Insurgency and Counterinsurgency in Military Affairs (142) Sep 75  
**NTIS/PS-75/701/3GSB**

Riots and Riot Control (127) Sep 75  
**NTIS/PS-75/730/2GSB**

Chemical and Biological Warfare. Part 1. Detection and Warning Systems (87) Nov 75  
**NTIS/PS-75/832/6GSB**

Chemical and Biological Warfare. Part 2. Protection, Decontamination, and Disposal (122) Nov 75  
**NTIS/PS-75/833/4GSB**

Chemical and Biological Warfare. Part 3. Biology, Chemistry, Therapy, and Toxicology (115) Oct 75 Excludes the biochemistry and therapy of cholinesterase inhibitors  
**NTIS/PS-75/834/2GSB**

Chemical and Biological Warfare. Part 4. Defoliants and Herbicides (126) Nov 75  
**NTIS/PS-75/835/9GSB**

Chemical and Biological Warfare. Part 5. General Studies (147) Nov 75 Covers warfare planning, civil defense, aerial dissemination, containers, and delivery systems  
**NTIS/PS-75/836/7GSB**

Biochemistry and Therapy of Cholinesterase Inhibitors (139) Nov 75 Primarily covers organophosphorus nerve agents  
**NTIS/PS-75/837/5GSB**

Camouflage (133) Feb 76  
**NTIS/PS-76/0079/4GSB**

Deterrence and Detente (107) Mar 76  
**NTIS/PS-76/0178/4GSB**

## Missile Technology

Inertial Navigation and Guidance (208) Apr 74  
**NTIS/PS-75/436/6GSB**

## Natural Resources

Structural Geologic Studies (88) DELETE  
**COM-73-11802/8GSB**

Remote Sensing for Natural Resource, Environmental, and Regional Planning (91) 1973-Jan 75  
**NTIS/PS-75/104/0GSB**

Coal Mine Waste (51) Dec 74  
**NTIS/PS-75/112/3GSB**

Mine Ventilation (66) Jan 75  
**NTIS/PS-75/196/6GSB**

Oil Recovery (86) Jan 75 Excludes offshore drilling  
**NTIS/PS-75/254/3GSB**

Seismic Detection. Part 1. General Studies (82) Jan 75 Excludes detection of nuclear events.  
**NTIS/PS-75/326/9GSB**

Aeration of Sewage Lagoons, Reservoirs, and Streams (157) Apr 75  
**NTIS/PS-75/357/4GSB**

Oil Shale (137) Apr 75  
**NTIS/PS-75/362/4GSB**

Public Opinion and Sociology of Water Resource Development (82) 1970-Apr 75  
**NTIS/PS-75/373/1GSB**

Planning and Impact of Water Resource Programs (210) 1972-Apr 75  
**NTIS/PS-75/374/9GSB**

Biochemical Oxygen Demand (262) Mar 75  
**NTIS/PS-75/375/6GSB**

Geothermal Energy (148) Apr 75  
**NTIS/PS-75/377/2GSB**

Underwater Construction and Mining (127) May 75  
**NTIS/PS-75/392/1GSB**

Effects of Land Use and Urbanization on Water Resources (94) 1971-May 75  
**NTIS/PS-75/401/0GSB**

Salt Marshes (92) May 75  
**NTIS/PS-75/426/7GSB**

Water Quality Modeling--Hydrological and Limnological Systems (213) Jun 75  
**NTIS/PS-75/441/6GSB**

Sport Fishing (150) Jun 75  
**NTIS/PS-75/468/9GSB**

Forest Management (85) Jun 75  
**NTIS/PS-75/483/8GSB**

Eutrophication. Vol 1. 1964-1973 (194) Jun 75  
**NTIS/PS-75/522/3GSB**

Eutrophication. Vol 2. 1974-June 1975 (86) Jun 75  
**NTIS/PS-75/523/1GSB**

Offshore Drilling (116) Jun 75 Includes environmental impacts  
**NTIS/PS-75/540/5GSB**

Flood Control (258) 1972-Jun 75  
**NTIS/PS-75/552/0GSB**

Water Rights and Water Law. Vol 2. 1974-1975 (99) July 75  
**NTIS/PS-75/558/7GSB**

Water Rights and Water Law. Vol 1. 1964-1973 (122) July 75  
**NTIS/PS-75/559/5GSB**

Mine Safety. Part 1. Fires and Explosions (81) Jun 75  
**NTIS/PS-75/562/9GSB**

Mine Safety. Part 2. Communication and Position Finding Systems (53) June 1975  
**NTIS/PS-75/563/7GSB**

Mine Safety. Part 3. Occupational Health--General Studies (110) Jun 75  
**NTIS/PS-75/564/5GSB**

Mine Safety. Part 4. Occupational Health--Radioactivity (49) Jun 75  
**NTIS/PS-75/565/2GSB**

Mine Safety. Part 5. General Studies (121) Jun 75 Excludes fire safety, communication systems, and health studies  
**NTIS/PS-75/566/0GSB**

Coal Beneficiation (71) Jul 75  
**NTIS/PS-75/593/4GSB**

Urban Storm Sewers and Water Runoff. Vol 2. 1974-Jun 1975. (105) Jul 75  
**NTIS/PS-75/602/3GSB**

Urban Storm Sewers and Water Runoff. Vol 1. 1964-1973 (177) Jul 75  
**NTIS/PS-75/603/1GSB**

Automatic Acquisition of Water Quality Data (140) 1970-Jul 75  
**NTIS/PS-75/639/5GSB**

Agricultural Resources Surveys (81) Aug 75  
**NTIS/PS-75/668/4GSB**

Network Flows (138) Sep 75 Includes Applied Studies  
**NTIS/PS-75/694/0GSB**

Water Quality Management in Estuaries and Coastal Zones (214) Sep 75 Excludes specific biological and oceanographic studies  
**NTIS/PS-75/698/1GSB**

Acid Mine Drainage (150) Sep 75  
**NTIS/PS-75/714/6GSB**

Snow Studies (252) Sep 75  
**NTIS/PS-75/719/5GSB**

Weather Modification Effects and Management (117) Sep 75 Excludes theory and physics of cloud seeding and nucleation  
**NTIS/PS-75/722/9GSB**

Mohole Project. Part 1. Drilling Platform (153) Sep 75  
**NTIS/PS-75/724/5GSB**

Mohole Project. Part 2. Drilling Section (269) Sep 75  
**NTIS/PS-75/725/2GSB**

Mohole Project. Part 3. Positioning and Reentry Systems (86) Sep 75  
**NTIS/PS-75/726/0GSB**

Mohole Project. Part 4. General Studies (132) Sep 75  
**NTIS/PS-75/727/8GSB**

Water Resources in Arid and Semiarid Regions (68) Sep 75  
**NTIS/PS-75/737/7GSB**

Ground Water Pollution. Part 1. General Studies (193) Sep 75 Excludes studies dealing with irrigation and fertilization  
**NTIS/PS-75/739/3GSB**

Ground Water Pollution. Part 2. Pollution From Irrigation and Fertilization (178) Sep 75  
**NTIS/PS-75/740/1GSB**

Ground Water Pollution. Part 3. Saline Ground Water (90) Sep 75  
**NTIS/PS-75/741/9GSB**

Strip Mining (145) Oct 75  
**NTIS/PS-75/751/8GSB**

Environmental and Ecological Effects of Dredging (136) Oct 75  
**NTIS/PS-75/755/9GSB**

Seismology (180) 1974-Oct 75 Excludes underground explosion detection  
**NTIS/PS-75/769/0GSB**

Range Finders (114) Nov 75  
**NTIS/PS-75/812/8GSB**

Development of Forest Industries (109) Nov 75  
**NTIS/PS-75/827/6GSB**

Magnetometers (162) Nov 75 Includes only equipment studies  
**NTIS/PS-75/830/0GSB**



- Sediment Transport in Rivers (85) Nov 75  
**NTIS/PS-75/848/2GSB**
- Paleoclimatology (66) Nov 75  
**NTIS/PS-75/851/6GSB**
- Paleomagnetism (97) Nov 75  
**NTIS/PS-75/852/4GSB**
- Forest Watersheds (91) Nov 75  
**NTIS/PS-75/856/5GSB**
- Reservoir and Lake Sedimentation (105) Dec 75  
**NTIS/PS-75/886/2GSB**
- Sediment-Water Interactions and Their Effects Upon Water Quality (106) Jan 76 Excludes salt water studies  
**NTIS/PS-76/0021/6GSB**
- Time Series Forecasting and Prediction (117) Jan 76 Includes studies on hydrology, meteorology, management, and energy among others  
**NTIS/PS-76/0031/5GSB**
- Coal Mine Waste (78) Feb 76  
**NTIS/PS-76/0053/9GSB**
- Instrumentation and Data Processing Used in the Earth Resources Technology Satellite (157) 1974-Jan 76  
**NTIS/PS-76/0055/4GSB**
- Biological Productivity in Fresh Water Environments (140) Jan 76  
**NTIS/PS-76/0056/2GSB**
- Permafrost. Part 1. General Studies (113) Feb 76  
**NTIS/PS-76/0069/5GSB**
- Permafrost. Part 2. Structural Engineering (188) Feb 76  
**NTIS/PS-76/0070/3GSB**
- Permafrost Engineering (171) Feb 76 (EI)  
**NTIS/PS-76/0071/1GSB**
- Tectonics. Vol 1. 1973-1974 (170) Feb 76  
**NTIS/PS-76/0091/9GSB**
- Tectonics. Vol 2. 1975-January 1976 (86) Feb 76  
**NTIS/PS-76/0092/7GSB**
- Thermal Pollution. Part 3. Hydrology and Hydrodynamics (177) Mar 76  
**NTIS/PS-76/0130/5GSB**

## Navigation, Guidance and Control

- Omega Navigation System (129) Jan 75  
**NTIS/PS-75/151/1GSB**
- Inertial Navigation and Guidance (208) Apr 74  
**NTIS/PS-75/436/6GSB**
- Air Traffic Control Simulation Models (185) Jun 75  
**NTIS/PS-75/521/5GSB**
- Aerospace Computer Systems. Part 1. Avionic Applications (158) Jan 76  
**NTIS/PS-76/0042/2GSB**
- Aerospace Computer Systems. Part 2. Spacecraft and Guided Missile Applications (154) Jan 76  
**NTIS/PS-76/0043/0GSB**

## Non-Destructive Testing

- Holographic Flow Visualization (53) Jan 75  
**NTIS/PS-75/115/6GSB**
- Schlieren and Shadowgraph Photography (149) Jan 75  
**NTIS/PS-75/117/2GSB**
- Nondestructive Ultrasonic Testing and Inspection. Vol. 1. 1964-1971 (188) Jan 75  
**NTIS/PS-75/270/9GSB**
- Nondestructive Ultrasonic Testing and Inspection. Vol. 2. 1972-1974 (165) Jan 75  
**NTIS/PS-75/271/7GSB**
- Applications of Holography (230) Jun 75 Excludes flow visualization and acoustic holography  
**NTIS/PS-75/431/7GSB**
- Acoustic Holography (92) Jun 75  
**NTIS/PS-75/432/5GSB**
- Holographic Theory and Recording Techniques (150) Jun 75 Excludes acoustic holography and applications  
**NTIS/PS-75/433/3GSB**
- Motor Vehicle Tires: Skid and Wear Resistance; Nondestructive Tests; Safety (139) Jun 75  
**NTIS/PS-75/533/0GSB**
- Hot Wire Anemometry. Vol 1. 1964-1970 (71) Aug 75  
**NTIS/PS-75/662/7GSB**
- Hot Wire Anemometry. Vol 2. 1971-July 1975 (87) Aug 75  
**NTIS/PS-75/663/5GSB**
- Hot Film Anemometry (32) Aug 75  
**NTIS/PS-75/664/3GSB**
- Nondestructive Testing: X-ray Photography and X-ray Radiography (125) Aug 75  
**NTIS/PS-75/666/8GSB**
- Nondestructive Testing of Pavements and Pavement Bases (80) Jan 76  
**NTIS/PS-76/0062/0GSB**

## Nuclear Science and Technology

- Nuclear Medicine (218) Jan 75  
**NTIS/PS-75/213/9GSB**
- Seismic Detection. Part 2. Nuclear Events--1970-1972--Vol. 1. (135) Jan 75  
**NTIS/PS-75/327/7GSB**
- Seismic Detection. Part 2. Nuclear Events--1973-1974--Vol. 2. (124) Jan 75  
**NTIS/PS-75/328/5GSB**
- Radioactivity from Nuclear Power Plants (227) May 75  
**NTIS/PS-75/429/1GSB**
- Mine Safety. Part 4. Occupational Health--Radioactivity (49) Jun 75  
**NTIS/PS-75/565/2GSB**

## Ocean Technology and Engineering

- Foundations in Marine Environments (64) Dec 74  
**NTIS/PS-75/255/0GSB**
- Underwater Medicine and Physiology (191) Jan 75  
**NTIS/PS-75/278/2GSB**
- Shipborne Containers and Containerization (100) Jan 75  
**NTIS/PS-75/284/0GSB**
- Aquaculture. Part 1. Fish (212) Feb 75 Excludes studies on salmon  
**NTIS/PS-75/304/6GSB**
- Aquaculture. Part 2. Shellfish (129) Feb 75  
**NTIS/PS-75/305/3GSB**
- Ecology of the Marine Environment (205) Feb 75  
**NTIS/PS-75/329/3GSB**
- Surface Effect Vehicles/Ships in Marine Environments (108) Jan 75  
**NTIS/PS-75/332/7GSB**
- Underwater Construction and Mining (127) May 75  
**NTIS/PS-75/392/1GSB**
- Ocean Wave Sensors (129) May 75  
**NTIS/PS-75/413/5GSB**
- Sewage Effects In Marine and Estuarine Environments (136) May 75  
**NTIS/PS-75/430/9GSB**
- Marine Fouling (140) 1969-Jun 75  
**NTIS/PS-75/442/4GSB**
- Remote Sensing of the Ocean. Part 1. Physical, Chemical, and Geological Properties (147) 1970-Apr 75  
**NTIS/PS-75/446/5GSB**
- Remote Sensing of the Ocean. Part 2. Dynamics (87) 1970-Apr 75  
**NTIS/PS-75/447/3GSB**
- Ocean Waste Disposal (164) May 75 Excludes thermal effluents  
**NTIS/PS-75/462/2GSB**
- Natural Gas. Part 2. Marine Transportation (44) May 75  
**NTIS/PS-75/464/8GSB**
- Supertankers and Superports (81) Jun 75 Includes environmental considerations  
**NTIS/PS-75/510/8GSB**
- The Gulf Stream (110) Jun 75  
**NTIS/PS-75/525/6GSB**
- Offshore Drilling (116) Jun 75 Includes environmental impacts  
**NTIS/PS-75/540/5GSB**
- Oil Spill Removal (202) Jun 74  
**NTIS/PS-75/542/1GSB**
- Breakwaters (186) Jun 75  
**NTIS/PS-75/553/8GSB**
- Oil Pollution Detection and Sensing (176) Jul 75  
**NTIS/PS-75/595/9GSB**
- Offshore Structures (110) Aug 75  
**NTIS/PS-75/684/1GSB**
- Water Quality Management in Estuaries and Coastal Zones (214) Sep 75 Excludes specific biological and oceanographic studies  
**NTIS/PS-75/698/1GSB**



Oil Water Separators (89) Sep 75  
Primarily concerns ballast water and  
oil spill separation  
**NTIS/PS-75/710/4GSB**

Ocean Law (163) Sep 75  
**NTIS/PS-75/712/0GSB**

Oyster Utilization, Biology, and Growth  
(205) Sep 75  
**NTIS/PS-75/718/7GSB**

Mohole Project. Part 1. Drilling Platform  
(153) Sep 75  
**NTIS/PS-75/724/5GSB**

Mohole Project. Part 2. Drilling Section  
(269) Sep 75  
**NTIS/PS-75/725/2GSB**

Mohole Project. Part 3. Positioning and  
Reentry Systems (86) Sep 75  
**NTIS/PS-75/726/0GSB**

Mohole Project. Part 4. General Studies  
(132) Sep 75  
**NTIS/PS-75/727/8GSB**

Marine Anchors (106) Oct 75  
**NTIS/PS-75/763/3GSB**

Marine Propellers: Fluid Mechanics and  
Mechanical Properties (145) Oct 75  
Excludes propeller cavitation  
**NTIS/PS-75/767/4GSB**

Marine Propellers: Design and Fabrica-  
tion (92) Oct 75  
**NTIS/PS-75/768/2GSB**

Underwater Voice Communication  
Systems (92) Oct 75  
**NTIS/PS-75/773/2GSB**

Underwater Breathing Apparatus (147)  
Oct 75  
**NTIS/PS-75/774/0GSB**

Underwater Clothing, Tools, and Equip-  
ment (164) Oct 75 Excludes  
breathing apparatus  
**NTIS/PS-75/775/7GSB**

Shipboard Sewage Treatment (48) Oct  
75  
**NTIS/PS-75/788/0GSB**

Tsunamis (143) Oct 75  
**NTIS/PS-75/810/2GSB**

Paleoclimatology (66) Nov 75  
**NTIS/PS-75/851/6GSB**

Paleomagnetism (97) Nov 75  
**NTIS/PS-75/852/4GSB**

Shark Behavior and Biology (68) Dec  
75  
**NTIS/PS-75/869/8GSB**

Icebreakers and Icebreaking (112) Dec  
75  
**NTIS/PS-75/872/2GSB**

Biodeterioration of Oil Spills (99) Jan  
76  
**NTIS/PS-76/0032/3GSB**

The Biological Effects of Oil Spills (142)  
Jan 76 Excludes biodeterioration  
**NTIS/PS-76/0033/1GSB**

Sea Water Corrosion (208) Feb 76  
**NTIS/PS-76/0058/8GSB**

Recreational Boating (128)  
**NTIS/PS-76/0060/4GSB**

Tectonics. Vol 1. 1973-1974 (170) Feb  
76  
**NTIS/PS-76/0091/9GSB**

Tectonics. Vol 2. 1975-January 1976 (86)  
Feb 76  
**NTIS/PS-76/0092/7GSB**

Whales (115) Feb 76  
**NTIS/PS-76/0111/5GSB**

Thermal Pollution. Part 1. Control  
Techniques and General Studies  
(116) Mar 76 Excludes waste heat  
utilization studies  
**NTIS/PS-76/0127/1GSB**

Thermal Pollution. Part 2. Biological Ef-  
fects. Vol 1. 1964-1973 (132) Mar 76  
**NTIS/PS-76/0128/9GSB**

Thermal Pollution. Part 2. Biological Ef-  
fects. Vol 2. 1974-March 1976 (132)  
Mar 76  
**NTIS/PS-76/0129/7GSB**

Thermal Pollution. Part 3. Hydrology and  
Hydrodynamics (177) Mar 76  
**NTIS/PS-76/0130/5GSB**

Cavitation. Part 2. Hydrofoils (118) Mar  
76  
**NTIS/PS-76/0165/1GSB**

Cavitation. Part 5. Propeller Cavitation  
(87) Mar 76  
**NTIS/PS-76/0168/5GSB**

## Ordnance

Lightweight Armor (106) Jan 75  
**NTIS/PS-75/136/2GSB**

Intrusion and Weapon Detection: Crime  
Prevention (77) Nov 75 Divided  
into two parts- civil development  
and military development with civil  
possibilities  
**NTIS/PS-75/809/4GSB**

Lightweight Armor (123) Feb 76  
**NTIS/PS-76/0106/5GSB**

## Photography and Recording Devices

Holographic Flow Visualization (53) Jan  
75  
**NTIS/PS-75/115/6GSB**

Flow Visualization (106) Jan 75 Ex-  
cludes shadowgraph, schlieren, and  
holographic techniques  
**NTIS/PS-75/116/4GSB**

Schlieren and Shadowgraph Photog-  
raphy (149) Jan 75  
**NTIS/PS-75/117/2GSB**

Applications of Holography (230) Jun  
75 Excludes flow visualization and  
acoustic holography  
**NTIS/PS-75/431/7GSB**

Acoustic Holography (92) Jun 75  
**NTIS/PS-75/432/5GSB**

Holographic Theory and Recording  
Techniques (150) Jun 75 Excludes  
acoustic holography and applica-  
tions  
**NTIS/PS-75/433/3GSB**

Nondestructive Testing: X-ray Photog-  
raphy and X-ray Radiography (125)  
Aug 75  
**NTIS/PS-75/666/8GSB**

Printers (105) Dec 75 Includes com-  
puter printers, contact printers, pro-  
jection printers, and printer readers  
**NTIS/PS-75/865/6GSB**

## Physics

Infrared Upconversion (48) Dec 74  
**NTIS/PS-75/075/2GSB**

Holographic Flow Visualization (53) Jan  
75  
**NTIS/PS-75/115/6GSB**

Flow Visualization (106) Jan 75 Ex-  
cludes shadowgraph, schlieren, and  
holographic techniques  
**NTIS/PS-75/116/4GSB**

Schlieren and Shadowgraph Photog-  
raphy (149) Jan 75  
**NTIS/PS-75/117/2GSB**

Use of Ultrasonics in Manufacturing  
Procedures (89) Dec 74  
**NTIS/PS-75/244/4GSB**

Acoustic Surface Waves. Vol. 1. 1964-  
1972 (75) Jan 75  
**NTIS/PS-75/248/5GSB**

Acoustic Surface Waves. Vol. 2. 1973-  
1974 (137) Jan 75  
**NTIS/PS-75/249/3GSB**

Heat Pipes. Vol 1. 1964-1972 (175) Feb  
75  
**NTIS/PS-75/316/0GSB**

Heat Pipes. Vol 2. 1973-1974 (122) Feb  
75  
**NTIS/PS-75/317/8GSB**

Nonlinear Acoustics (71) Apr 75  
**NTIS/PS-75/351/7GSB**

Amorphous Semiconductors (224) Oct  
73-Dec 74  
**NTIS/PS-75/368/1GSB**

Radiation Damage of Laser Materials  
(143) Apr 75  
**NTIS/PS-75/399/6GSB**

Light Detection and Ranging(LIDAR)  
(191) May 75  
**NTIS/PS-75/402/8GSB**

Light Communication Systems (151)  
Apr 75  
**NTIS/PS-75/412/7GSB**

Light Emitting Diodes (159) Apr 75  
**NTIS/PS-75/415/0GSB**

Fiber Optics (147) 1969-May 75  
**NTIS/PS-75/420/0GSB**

Structural Mechanics Software (185)  
May 75  
**NTIS/PS-75/428/3GSB**

Applications of Holography (230) Jun  
75 Excludes flow visualization and  
acoustic holography  
**NTIS/PS-75/431/7GSB**

Acoustic Holography (92) Jun 75  
**NTIS/PS-75/432/5GSB**

Holographic Theory and Recording  
Techniques (150) Jun 75 Excludes  
acoustic holography and applica-  
tions  
**NTIS/PS-75/433/3GSB**

Magnetohydrodynamic Generators in  
Power Generation (105) May 75  
**NTIS/PS-75/448/1GSB**

Ferrite Microwave Electronics. Vol 1.  
1964-1969 (221) Apr 75  
**NTIS/PS-75/457/2GSB**

Ferrite Microwave Electronics. Vol 2.  
1970-Apr 75 (105) Apr 75  
**NTIS/PS-75/458/0GSB**



- Stress Crack Phenomena (186) Jun 75  
Excludes rock mechanics and  
mathematical analysis  
**NTIS/PS-75/465/5GSB**
- Mathematical Analysis of Stress Cracks.  
Vol 1. 1964-1973 (207) June 75  
**NTIS/PS-75/466/3GSB**
- Mathematical Analysis of Stress Cracks.  
Vol 2. 1974-May 75 (109) June 75  
**NTIS/PS-75/467/1GSB**
- Carbon Dioxide Lasers. Vol 1. 1970-1974  
(266) Jun 75  
**NTIS/PS-75/473/9GSB**
- Carbon Dioxide Lasers. Vol 2. 1975 (51)  
Jun 75  
**NTIS/PS-75/474/7GSB**
- Chemical Vapor Deposition (211) May  
75  
**NTIS/PS-75/477/0GSB**
- Finite Elements in Structural Analysis  
(70) Jun 75  
**NTIS/PS-75/496/0GSB**
- Drag Reducing Fluids (158) 1969-Jun  
75  
**NTIS/PS-75/497/8GSB**
- Dye Lasers (173) Jun 75  
**NTIS/PS-75/539/7GSB**
- Gas Dynamic Lasers (112) Jul 75  
**NTIS/PS-75/573/6GSB**
- Josephson Junctions (111) Jul 75  
**NTIS/PS-75/590/0GSB**
- Liquid Crystals (202) Jul 75  
**NTIS/PS-75/591/8GSB**
- Metal Vapor Lasers (51) Aug 75  
**NTIS/PS-75/625/4GSB**
- Silicon Solar Cells (147) Jul 75  
**NTIS/PS-75/628/8GSB**
- Superconducting Magnets (137) Jul 75  
**NTIS/PS-75/636/1GSB**
- Numerical Methods in Fluid Flow  
Problems Vol. 1 1970-1974 (236)  
Aug 75  
**NTIS/PS-75/642/9GSB**
- Numerical Methods in Fluid Flow  
Problems Vol. 2 January 1975-Aug-  
ust 1975 (96) Aug 75  
**NTIS/PS-75/643/7GSB**
- Carbon Monoxide Lasers (124) Aug 75  
**NTIS/PS-75/658/5GSB**
- Accident Risks in Nuclear Facilities  
(131) Aug 75  
**NTIS/PS-75/659/3GSB**
- Ion Implantation (140) Aug 75  
**NTIS/PS-75/661/9GSB**
- Hot Wire Anemometry. Vol 1. 1964-1970  
(71) Aug 75  
**NTIS/PS-75/662/7GSB**
- Hot Wire Anemometry. Vol 2. 1971-July  
1975 (87) Aug 75  
**NTIS/PS-75/663/5GSB**
- Hot Film Anemometry (32) Aug 75  
**NTIS/PS-75/664/3GSB**
- Atmospheric Effects on Laser Beams  
(227) Aug 75  
**NTIS/PS-75/670/0GSB**
- Magnetic Bubble Domains (55) Sep 75  
**NTIS/PS-75/686/6GSB**
- Squid Devices (59) Aug 75  
**NTIS/PS-75/687/4GSB**
- Cadmium Sulfide Solar Cells (181) Sep  
75  
**NTIS/PS-75/693/2GSB**
- Hydrogen Fluoride and Deuterium  
Fluoride Lasers (188) Sep 75  
**NTIS/PS-75/733/6GSB**
- Ultraviolet and X Ray Lasers (132) Sep  
75  
**NTIS/PS-75/738/5GSB**
- Electroluminescent Display Devices  
(114) Sep 75  
**NTIS/PS-75/742/7GSB**
- Frequency Standards (136) Oct 75  
**NTIS/PS-75/765/8GSB**
- Laser Fusion (109) Nov 75  
**NTIS/PS-75/783/1GSB**
- Electron Beam Fusion (44) Nov 75  
**NTIS/PS-75/784/9GSB**
- Gallium Arsenide Lasers (92) Oct 75  
**NTIS/PS-75/792/2GSB**
- Range Finders (114) Nov 75  
**NTIS/PS-75/812/8GSB**
- Boundary Layer Separation. Vol 1. 1966-  
1970 (127) Nov 75  
**NTIS/PS-75/814/4GSB**
- Boundary Layer Separation. Vol 2. 1971-  
Aug 75 (115) Nov 75  
**NTIS/PS-75/815/1GSB**
- Boundary Layer Transition. Vol 1. 1964-  
1968 (98) Nov 75  
**NTIS/PS-75/816/9GSB**
- Boundary Layer Transition. Vol 2. 1969-  
1971 (104) Nov 75  
**NTIS/PS-75/817/7GSB**
- Boundary Layer Transition. Vol 3. 1972-  
1975 (112) Nov 75  
**NTIS/PS-75/818/5GSB**
- Shear Flow. Part 1. Liquids (152) Oct 75  
**NTIS/PS-75/819/3GSB**
- Shear Flow. Part 2. Gases. Vol 1. 1964-  
1969 (154) Nov 75  
**NTIS/PS-75/820/1GSB**
- Shear Flow. Part 2. Gases. Vol 2. 1970-  
November 1975 (166) Nov 75  
**NTIS/PS-75/821/9GSB**
- Shear Flow. Part 3. General Studies  
(150) Nov 75 Excludes wind shear  
**NTIS/PS-75/822/7GSB**
- Flow Reattachment (86) Nov 75  
**NTIS/PS-75/823/5GSB**
- Boundary Layer Control (143) Nov 75  
**NTIS/PS-75/824/3GSB**
- Nuclear Fusion (139) Dec 75 Excludes  
research sponsored by ERDA as  
well as that on laser and electron  
beam fusion  
**NTIS/PS-75/850/8GSB**
- Cascade Flow. Vol 1. 1964-1973 (194)  
Dec 75  
**NTIS/PS-75/877/1GSB**
- Cascade Flow. Vol 2. 1974-October 1975  
(64) Dec 75  
**NTIS/PS-75/878/9GSB**
- Cavity Flow. Vol. 1. 1964-1970 (110) Feb  
76  
**NTIS/PS-76/0040/6GSB**
- Cavity Flow. Vol. 2. 1971-1975 (94) Feb  
76  
**NTIS/PS-76/0041/4GSB**
- Frequency Allocation and Management  
(147) Jan 76  
**NTIS/PS-76/0054/7GSB**
- Schottky Barrier Devices (181) Jan 76  
**NTIS/PS-76/0065/3GSB**
- Schottky Barrier Devices (127) 1975  
(E1)  
**NTIS/PS-76/0066/1GSB**
- Aircraft Wake Vortices (177) Feb 76  
**NTIS/PS-76/0072/9GSB**
- Gallium Arsenide Epitaxial Growth (172)  
Feb 76  
**NTIS/PS-76/0102/4GSB**
- Cosmology (113) Mar 76  
**NTIS/PS-76/0126/3GSB**
- Solar Eclipses (150) Mar 76  
**NTIS/PS-76/0131/3GSB**
- Quantum Electrodynamics (175) Mar 76  
**NTIS/PS-76/0132/1GSB**
- Quasars, Pulsars and Black Holes (205)  
Mar 76  
**NTIS/PS-76/0134/7GSB**
- Relativity Theory (136) Mar 76  
**NTIS/PS-76/0135/4GSB**
- Fluid Control Devices. Vol 1. 1964-  
December 1971 (188) Mar 76  
**NTIS/PS-76/0139/6GSB**
- Fluid Control Devices. Vol 2. 1972-  
February 1976 (156) Mar 76  
**NTIS/PS-76/0140/4GSB**
- Fluid Control Devices (161) 1974-Feb  
76 (E1)  
**NTIS/PS-76/0141/2GSB**
- Cavitation. Part 1. Cavitation Flow. Vol  
1. 1964-1973 (131) Mar 76  
**NTIS/PS-76/0163/6GSB**
- Cavitation. Part 1. Cavitation Flow. Vol  
2. 1974-Feb 1976 (72) Mar 76  
**NTIS/PS-76/0164/4GSB**
- Cavitation. Part 2. Hydrofoils (118) Mar  
76  
**NTIS/PS-76/0165/1GSB**
- Cavitation. Part 3. Corrosion and Ero-  
sion (104) Mar 76 Excludes turbine  
cavitation  
**NTIS/PS-76/0166/9GSB**
- Cavitation. Part 4. Cavitation Flow and  
Erosion in Turbines (70) Mar 76  
**NTIS/PS-76/0167/7GSB**
- Cavitation. Part 5. Propeller Cavitation  
(87) Mar 76  
**NTIS/PS-76/0168/5GSB**

## Propulsion and Fuels

- Automobile Air Pollution. Part 4. New  
Automotive Engines (60) 1970-Dec  
74  
**NTIS/PS-75/312/9GSB**
- Automobile Air Pollution. Part 5. Au-  
tomotive Fuels (48) 1970-Dec 74  
**NTIS/PS-75/313/7GSB**
- Hydrogen Energy (86) Apr 75  
**NTIS/PS-75/379/8GSB**
- Synthetic Fuels From Municipal, Indus-  
trial, and Agricultural Wastes (36)  
Aug 75  
**NTIS/PS-75/655/1GSB**



- Cascade Flow. Vol 1. 1964-1973 (194) Dec 75  
**NTIS/PS-75/877/1GSB**
- Cascade Flow. Vol 2. 1974-October 1975 (64) Dec 75  
**NTIS/PS-75/878/9GSB**
- Diesel Engine Exhaust (114) Jan 76  
**NTIS/PS-76/0007/5GSB**
- Turbine Blades: Erosion and Corrosion (80) Feb 76 Excludes cavitation  
**NTIS/PS-76/0081/0GSB**
- Turbine Blades: Erosion and Corrosion (108) Feb 76 Excludes cavitation (EI)  
**NTIS/PS-76/0082/8GSB**
- Gas and Steam Turbines, General: Corrosion and Erosion (166) Feb 76 Excludes turbine blades cavitation  
**NTIS/PS-76/0087/7GSB**
- Gas and Steam Turbines, General: Corrosion and Erosion (139) Feb 76 Excludes turbine blades cavitation (EI)  
**NTIS/PS-76/0088/5GSB**
- Fluidized Bed Combustion (138) Mar 76  
**NTIS/PS-76/0161/0GSB**
- Fluidized Bed Combustion (136) Mar 76 (EI)  
**NTIS/PS-76/0162/8GSB**
- Cavitation. Part 4. Cavitation Flow and Erosion in Turbines (70) Mar 76  
**NTIS/PS-76/0167/7GSB**

## Space Technology

- Range Finders (114) Nov 75  
**NTIS/PS-75/812/8GSB**
- Remotely Piloted Vehicles (85) Dec 75 Includes aircraft, drones, and extraterrestrial vehicles  
**NTIS/PS-75/876/3GSB**
- Aerospace Computer Systems. Part 2. Spacecraft and Guided Missile Applications (154) Jan 76  
**NTIS/PS-76/0043/0GSB**

## Transportation

- Highway Markings (64) Dec 74  
**NTIS/PS-75/122/2GSB**
- Tourism and Travel in the United States (85) Jan 75  
**NTIS/PS-75/148/7GSB**
- Omega Navigation System (129) Jan 75  
**NTIS/PS-75/151/1GSB**
- Financing Urban Transportation. Part 1. General Studies (65) 1970-Jan 75  
**NTIS/PS-75/200/6GSB**
- Financing Urban Transportation. Part 2. Local Studies (95) 1970-Jan 75  
**NTIS/PS-75/201/4GSB**
- Hazardous Materials Transportation (126) Dec 74 Excludes radioactive wastes  
**NTIS/PS-75/286/5GSB**
- Dual Mode Transportation (77) Feb 75  
**NTIS/PS-75/287/3GSB**
- Automobile Air Pollution. Part 1. Abatement Through Management and Planning (89) 1970-Jan 75  
**NTIS/PS-75/309/5GSB**

- Automobile Air Pollution. Part 2. Exhaust Analysis (33) 1970-Dec 74  
**NTIS/PS-75/310/3GSB**
- Automobile Air Pollution. Part 3. Control Equipment (100) 1970-Dec 74  
**NTIS/PS-75/311/1GSB**
- Automobile Air Pollution. Part 4. New Automotive Engines (60) 1970-Dec 74  
**NTIS/PS-75/312/9GSB**
- Automobile Air Pollution. Part 5. Automotive Fuels (48) 1970-Dec 74  
**NTIS/PS-75/313/7GSB**
- Automobile Air Pollution. Part 6. Atmospheric Motion (42) 1970-Dec 74  
**NTIS/PS-75/314/5GSB**
- Surface Effect Vehicles and Surface Effect: General Studies. Vol. 1. 1964-1971 (134) Jan 75 Does not include marine environments  
**NTIS/PS-75/333/5GSB**
- Surface Effect Vehicles and Surface Effect: General Studies. Vol. 2. 1972-1974 (67) Jan 75 Does not include marine environments  
**NTIS/PS-75/334/3GSB**
- Fuel Consumption. Part 2. Transportation (93) Feb 75  
**NTIS/PS-75/342/6GSB**
- Air Traffic Congestion and Capacity (106) Apr 75  
**NTIS/PS-75/376/4GSB**
- Urban Automated Traffic Control (114) May 75  
**NTIS/PS-75/403/6GSB**
- Microwave Landing Systems (80) Apr 75  
**NTIS/PS-75/417/6GSB**
- BART and METRO--Rapid Transit for the San Francisco and Washington D.C. Areas (168) May 75  
**NTIS/PS-75/421/8GSB**
- Inertial Navigation and Guidance (208) Apr 74  
**NTIS/PS-75/436/6GSB**
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<b>Air traffic, Queueing theory</b> NTIS/PS-75/376/4GSB	<b>Altitude, Hypoxia</b> NTIS/PS-75/237/8GSB	<b>Antisolar coatings, Camouflage</b> NTIS/PS-76/0079/4GSB
<b>Air transportation, Demands needs</b> NTIS/PS-76/0045/5GSB	<b>Aluminum alloys, Cryogenics</b> NTIS/PS-75/192/5GSB	<b>Applied psychology, Industrial psychology</b> NTIS/PS-75/839/1GSB
<b>Air transportation, Fuel consumption</b> NTIS/PS-75/342/6GSB	<b>Aluminum, Cryogenics</b> NTIS/PS-75/192/5GSB	<b>Aquaculture, Fertilizers</b> NTIS/PS-75/599/1GSB
<b>Air water interactions, Wind shear</b> NTIS/PS-75/874/8GSB	<b>Aluminum, Powder Metallurgy</b> NTIS/PS-75/697/3GSB	<b>Aquaculture, Fishes</b> NTIS/PS-75/304/6GSB
<b>Airborne/spaceborne computers</b> NTIS/PS-76/0042/2GSB NTIS/PS-76/0043/0GSB	<b>Ambulatory care</b> NTIS/PS-75/341/8GSB	



<b>Aquaculture, Salmon</b> NTIS/PS-75/306/1GSB	<b>Atmospheric diffusion, Warfare agents</b> NTIS/PS-75/836/7GSB	<b>Automobile insurance</b> NTIS/PS-75/605/6GSB
<b>Aquaculture, Shellfish</b> NTIS/PS-75/305/3GSB	<b>Atmospheric models, Air pollution</b> NTIS/PS-75/476/2GSB	<b>Automobile operators, Behavior</b> NTIS/PS-75/619/7GSB
<b>Aquatic biology, Thermal pollution</b> NTIS/PS-76/0128/9GSB NTIS/PS-76/0129/7GSB	<b>Atmospheric motion, Air pollution tracers</b> NTIS/PS-76/0144/6GSB	<b>Automobile operators, Stress</b> NTIS/PS-75/620/5GSB
<b>Aquatic plants, Weed control</b> NTIS/PS-75/581/9GSB	<b>Atmospheric motion, Automobile exhaust</b> NTIS/PS-75/314/5GSB	<b>Automobile tires, Safety</b> NTIS/PS-75/533/0GSB
<b>Aquatic weed control</b> NTIS/PS-75/581/9GSB	<b>Atmospheric motion, Wind shear</b> NTIS/PS-75/874/8GSB	<b>Automobiles, Air bag restraints</b> NTIS/PS-76/0024/0GSB
<b>Aquifers, Water pollution</b> NTIS/PS-75/739/3GSB	<b>Atmospheric precipitation, Washout</b> NTIS/PS-75/517/3GSB	<b>Automobiles, Air pollution control</b> NTIS/PS-75/311/1GSB
<b>Archaeology</b> NTIS/PS-75/859/9GSB	<b>Atmospheric scattering, Laser beams</b> NTIS/PS-75/670/0GSB	<b>Automobiles, Bumpers</b> NTIS/PS-75/736/9GSB
<b>Arctic regions, Construction</b> NTIS/PS-75/394/7GSB	<b>Atmospheric sounding, Acoustic radar</b> NTIS/PS-75/641/1GSB	<b>Automobiles, Electric automobiles</b> NTIS/PS-75/490/3GSB
<b>Arid land, Water resources</b> NTIS/PS-75/737/7GSB	<b>Atomic clocks, Frequency standards</b> NTIS/PS-75/765/8GSB	<b>Automobiles, Fuel consumption</b> NTIS/PS-75/342/6GSB
<b>Armor, Lightweight armor</b> NTIS/PS-75/136/2GSB NTIS/PS-76/0106/5GSB	<b>Attitude surveys, Black-white relations</b> NTIS/PS-75/842/5GSB NTIS/PS-75/843/3GSB	<b>Automobiles, Impact tests</b> NTIS/PS-75/651/0GSB
<b>Arms control</b> NTIS/PS-75/393/9GSB	<b>Attitude surveys, Highways</b> NTIS/PS-76/0153/7GSB	<b>Automobiles, Pedestrian safety</b> NTIS/PS-75/660/1GSB
<b>Army training, Flight simulation</b> NTIS/PS-76/0068/7GSB	<b>Attitudes, Military personnel</b> NTIS/PS-75/298/0GSB	<b>Automobiles, Restraints</b> NTIS/PS-75/735/1GSB
<b>Arteriosclerosis</b> NTIS/PS-76/0117/2GSB NTIS/PS-76/0118/0GSB	<b>Attitudes, Water resources</b> NTIS/PS-75/373/1GSB	<b>Automotive fuels</b> NTIS/PS-75/313/7GSB
<b>Artificial intelligence</b> NTIS/PS-75/397/0GSB	<b>Audiovisual education, Methodology</b> NTIS/PS-75/685/8GSB	<b>Avionics, Data processing equipment</b> NTIS/PS-76/0042/2GSB
<b>Artificial intelligence, Robots</b> NTIS/PS-75/731/0GSB	<b>Auditory perception, Cetacea</b> NTIS/PS-76/0008/3GSB	<b>Bacteria, Water pollution</b> NTIS/PS-76/0120/6GSB
<b>Artificial kidneys</b> NTIS/PS-75/418/4GSB	<b>Autoimmune diseases</b> NTIS/PS-75/578/5GSB NTIS/PS-75/579/3GSB	<b>Ball bearings</b> NTIS/PS-75/805/2GSB NTIS/PS-75/806/0GSB
<b>Artificial limbs</b> NTIS/PS-75/438/2GSB	<b>Automata theory, Finite state machines</b> NTIS/PS-75/707/0GSB	<b>Ballast water, Oil water separators</b> NTIS/PS-75/710/4GSB
<b>Artificial precipitation, Effects</b> NTIS/PS-75/722/9GSB	<b>Automatic control</b> NTIS/PS-75/503/3GSB NTIS/PS-75/504/1GSB	<b>Band pass filters</b> NTIS/PS-76/0145/3GSB NTIS/PS-76/0146/1GSB
<b>Asbestos, Pollution</b> NTIS/PS-75/746/8GSB	<b>Automatic programming</b> NTIS/PS-75/594/2GSB	<b>Bargaining, Labor</b> NTIS/PS-76/0124/8GSB
<b>Asphaltic concrete, Pavements</b> NTIS/PS-75/672/6GSB NTIS/PS-75/673/4GSB NTIS/PS-75/674/2GSB	<b>Automation, Machines</b> NTIS/PS-75/480/4GSB NTIS/PS-75/481/2GSB NTIS/PS-75/482/0GSB	<b>BART, Bay area rapid transit</b> NTIS/PS-75/421/8GSB
<b>Assault, Behavior</b> NTIS/PS-75/281/6GSB	<b>Automobile engines, Air pollution control</b> NTIS/PS-75/312/9GSB	<b>Battery electrodes, Surface chemistry</b> NTIS/PS-75/644/5GSB
<b>Astigmatism, Nystagmus</b> NTIS/PS-76/0143/8GSB	<b>Automobile exhaust, Atmospheric motion</b> NTIS/PS-75/314/5GSB	<b>Beach erosion, Shore protection</b> NTIS/PS-75/469/7GSB
<b>Atmospheric attenuation, Laser beams</b> NTIS/PS-75/670/0GSB	<b>Automobile exhaust, Air pollution</b> NTIS/PS-75/309/5GSB	<b>Beacons, Air traffic control</b> NTIS/PS-76/0039/8GSB
<b>Atmospheric chemistry, NOx pollutants</b> NTIS/PS-75/609/8GSB	<b>Automobile exhaust, Gas analysis</b> NTIS/PS-75/310/3GSB	<b>Beam leads, Microelectronics</b> NTIS/PS-75/246/9GSB
<b>Atmospheric chemistry, Ozone</b> NTIS/PS-76/0029/9GSB		<b>Bearings, Ball bearings</b> NTIS/PS-75/805/2GSB NTIS/PS-75/806/0GSB
<b>Atmospheric diffusion, Air pollution</b> NTIS/PS-75/476/2GSB		<b>Bearings, Gas</b> NTIS/PS-75/807/8GSB NTIS/PS-75/808/6GSB



<b>Bearings, High temperature</b> NTIS/PS-75/716/1GSB	<b>Blomaterials</b> NTIS/PS-75/487/9GSB NTIS/PS-75/488/7GSB	<b>Books, Publishing</b> NTIS/PS-76/0005/9GSB
<b>Bearings, Journal bearings</b> NTIS/PS-75/801/1GSB	<b>Biomedical information systems</b> NTIS/PS-75/419/2GSB NTIS/PS-75/891/2GSB	<b>Boolean functions, Automata theory</b> NTIS/PS-75/707/0GSB
<b>Bearings, Liquids</b> NTIS/PS-75/804/5GSB	<b>Bionics</b> NTIS/PS-75/396/2GSB	<b>Boron fibers, Composite materials</b> NTIS/PS-75/414/3GSB
<b>Bearings, Roller bearings</b> NTIS/PS-75/803/7GSB	<b>Biotelemetry</b> NTIS/PS-75/855/7GSB	<b>Boron reinforced composites</b> NTIS/PS-75/414/3GSB
<b>Bearings, Sleeve bearings</b> NTIS/PS-75/802/9GSB	<b>Biphenyl/chloro</b> NTIS/PS-75/713/8GSB	<b>Boron reinforced plastics</b> NTIS/PS-76/0064/6GSB
<b>Bearings, Thrust bearings</b> NTIS/PS-75/802/9GSB	<b>Birth control</b> NTIS/PS-75/880/5GSB	<b>Boundary layer control, Fluid flow</b> NTIS/PS-75/824/3GSB
<b>Behavior, Adolescents</b> NTIS/PS-75/232/9GSB	<b>Black holes</b> NTIS/PS-76/0134/7GSB	<b>Boundary layer, Flow separation</b> NTIS/PS-75/814/4GSB NTIS/PS-75/815/1GSB
<b>Behavior, Criminology</b> NTIS/PS-75/758/3GSB	<b>Blind, Rehabilitation</b> NTIS/PS-76/0028/1GSB	<b>Boundary layer reattachment</b> NTIS/PS-75/823/5GSB
<b>Behavior, Fatigue</b> NTIS/PS-76/0095/0GSB	<b>Blindness</b> NTIS/PS-75/427/5GSB	<b>Boundary layer transition, Fluid dynamics</b> NTIS/PS-75/816/9GSB NTIS/PS-75/817/7GSB NTIS/PS-75/818/5GSB
<b>Behavior, Motor vehicle operators</b> NTIS/PS-75/619/7GSB	<b>Blindness, Handicapped persons</b> NTIS/PS-75/427/5GSB	<b>Breakthrough Operation, Housing</b> NTIS/PS-75/571/0GSB
<b>Behavior, Travel</b> NTIS/PS-76/0025/7GSB NTIS/PS-76/0026/5GSB	<b>Blindness, Vocational rehabilitation</b> NTIS/PS-75/427/5GSB	<b>Breakwaters</b> NTIS/PS-75/553/8GSB
<b>Beneficiation, Coal</b> NTIS/PS-75/593/4GSB	<b>Block design</b> NTIS/PS-75/776/5GSB	<b>Bridges, Construction</b> NTIS/PS-75/888/8GSB
<b>Beryllium, Pollution</b> NTIS/PS-75/772/4GSB	<b>Blood compatible materials</b> NTIS/PS-75/487/9GSB NTIS/PS-75/488/7GSB	<b>Bridges, Earthquake engineering</b> NTIS/PS-75/632/0GSB NTIS/PS-75/633/8GSB
<b>Bicycles</b> NTIS/PS-75/787/2GSB	<b>Blood diseases, Cancer</b> NTIS/PS-75/339/2GSB	<b>Bridges, Wind pressure</b> NTIS/PS-75/870/6GSB
<b>Biige water, Oil water separators</b> NTIS/PS-75/710/4GSB	<b>Blood diseases, Hemophilia</b> NTIS/PS-75/260/0GSB	<b>Bromohydrocarbons, Toxicity</b> NTIS/PS-75/387/1GSB
<b>Biochemical oxygen demand</b> NTIS/PS-75/375/6GSB	<b>Blood diseases, Septicemia</b> NTIS/PS-75/349/1GSB	<b>Buildings, Earthquake engineering</b> NTIS/PS-75/632/0GSB NTIS/PS-75/633/8GSB
<b>Biochemistry, Chemical warfare agents</b> NTIS/PS-75/834/2GSB	<b>Blood preservation</b> NTIS/PS-75/778/1GSB NTIS/PS-75/779/9GSB	<b>Buildings, Fires</b> NTIS/PS-75/652/8GSB
<b>Biochemistry, Molecular biology</b> NTIS/PS-76/0001/8GSB	<b>Blood pressure, Diseases</b> NTIS/PS-76/0179/2GSB	<b>Buildings, Sonic boom</b> NTIS/PS-76/0176/8GSB
<b>Biodeterioration, Oil pollution</b> NTIS/PS-76/0032/3GSB	<b>Blood storage</b> NTIS/PS-75/778/1GSB NTIS/PS-75/779/9GSB	<b>Buildings, Wind pressure</b> NTIS/PS-75/870/6GSB
<b>Biofeedback</b> NTIS/PS-75/885/4GSB	<b>Blood transfusion, Hepatitis</b> NTIS/PS-75/543/9GSB	<b>Bulldozers, Construction equipment</b> NTIS/PS-75/391/3GSB
<b>Bioindicators</b> NTIS/PS-75/796/3GSB	<b>Boats, Recreational boating</b> NTIS/PS-76/0060/4GSB	<b>Bumpers, Automobiles</b> NTIS/PS-75/736/9GSB
<b>Biological pest control</b> NTIS/PS-75/887/0GSB	<b>Body armor</b> NTIS/PS-75/136/2GSB NTIS/PS-76/0106/5GSB	<b>Buoyancy systems, Mohole project</b> NTIS/PS-75/724/5GSB
<b>Biological productivity, Fresh water</b> NTIS/PS-76/0056/2GSB	<b>Boliers, Corrosion</b> NTIS/PS-75/555/3GSB	<b>Burns, Chemotherapy surgery</b> NTIS/PS-76/0104/0GSB
<b>Biological warfare agents, Biology</b> NTIS/PS-75/834/2GSB	<b>Bonding, Adhesives</b> NTIS/PS-75/704/7GSB	<b>Bus lines, Dial-a-ride</b> NTIS/PS-75/665/0GSB
<b>Biological warfare agents, Detection</b> NTIS/PS-75/832/6GSB	<b>Bonding, Diffusion</b> NTIS/PS-75/771/6GSB	<b>Bus transportation, Urban areas</b> NTIS/PS-75/705/4GSB NTIS/PS-75/706/2GSB
<b>Biological warfare agents, Dissemination</b> NTIS/PS-75/836/7GSB		
<b>Biological warfare agents, Protection</b> NTIS/PS-75/833/4GSB		



**Business, Minority groups**  
NTIS/PS-75/845/8GSB

**Cable television**  
NTIS/PS-75/404/4GSB

**Cadmium, Pollution**  
NTIS/PS-75/681/7GSB

**Cadmium sulfides, Solar cells**  
NTIS/PS-75/693/2GSB

**Camouflage**  
NTIS/PS-76/0079/4GSB

**Camping, Recreation**  
NTIS/PS-76/0138/8GSB

**Cancer, Blood diseases**  
NTIS/PS-75/339/2GSB

**Cancer, Drugs**  
NTIS/PS-75/509/0GSB

**Cancer, Immunology**  
NTIS/PS-75/222/0GSB

**Cancer, Respiratory system**  
NTIS/PS-75/841/7GSB

**Cancer, Uranium mining**  
NTIS/PS-75/565/2GSB

**Cancer, Viruses**  
NTIS/PS-76/0172/7GSB

**Cancers, Cancer**  
NTIS/PS-75/222/0GSB

**Car pools, Urban transportation**  
NTIS/PS-75/854/0GSB

**Carbon**  
NTIS/PS-75/182/6GSB

**Carbon, Amorphous materials**  
NTIS/PS-75/618/9GSB

**Carbon black**  
NTIS/PS-75/617/1GSB

**Carbon composites**  
NTIS/PS-75/614/8GSB

**Carbon dioxide lasers**  
NTIS/PS-75/473/9GSB  
NTIS/PS-75/474/7GSB

**Carbon fibers**  
NTIS/PS-75/612/2GSB  
NTIS/PS-75/613/0GSB

**Carbon foams**  
NTIS/PS-75/617/1GSB

**Carbon monoxide lasers**  
NTIS/PS-75/658/5GSB

**Carbon reinforced plastics**  
NTIS/PS-76/0064/6GSB

**Carbon, Research**  
NTIS/PS-75/617/1GSB

**Carboranes, Chemistry**  
NTIS/PS-75/597/5GSB

**Carboranes, Polycarboranes**  
NTIS/PS-75/554/6GSB

**Carcinogens**  
NTIS/PS-75/844/1GSB

**Cardiac assist devices**  
NTIS/PS-75/423/4GSB  
NTIS/PS-75/424/2GSB

**Cardiac pacemakers**  
NTIS/PS-75/423/4GSB  
NTIS/PS-75/424/2GSB

**Cardiovascular diseases**  
NTIS/PS-76/0117/2GSB  
NTIS/PS-76/0118/0GSB

**Cardiovascular diseases, Driver**  
NTIS/PS-75/620/5GSB

**Career development, Civilian personnel**  
NTIS/PS-76/0116/4GSB

**Career development, Military personnel**  
NTIS/PS-76/0115/6GSB

**Cargo ships, Containers**  
NTIS/PS-75/284/0GSB

**Cargo transportation, Natural gas**  
NTIS/PS-75/464/8GSB

**Cargo transportation, Railroads**  
NTIS/PS-76/0169/3GSB

**Cargo transportation, Security**  
NTIS/PS-75/732/8GSB

**Cargo, Travel time**  
NTIS/PS-76/0010/9GSB

**Cargo vehicles, Insurance**  
NTIS/PS-75/605/6GSB

**Cascade flow, Compressors**  
NTIS/PS-75/877/1GSB  
NTIS/PS-75/878/9GSB

**Cascade structures, Fluid flow**  
NTIS/PS-75/877/1GSB  
NTIS/PS-75/878/9GSB

**Casting, Iron alloys**  
NTIS/PS-76/0142/0GSB

**Casting, Steels**  
NTIS/PS-76/0142/0GSB

**Catalytic reactors(Exhaust systems)**  
NTIS/PS-75/311/1GSB

**Cathodic protection, Corrosion prevention**  
NTIS/PS-75/241/0GSB

**Cavitation, Corrosion**  
NTIS/PS-76/0166/9GSB

**Cavitation, Fluid flow**  
NTIS/PS-76/0163/6GSB  
NTIS/PS-76/0164/4GSB

**Cavitation, Hydrofoils**  
NTIS/PS-76/0165/1GSB

**Cavitation, Propellers(Marine)**  
NTIS/PS-76/0168/5GSB

**Cavitation, Turbines**  
NTIS/PS-76/0167/7GSB

**Cavity flow**  
NTIS/PS-76/0040/6GSB  
NTIS/PS-76/0041/4GSB

**Cells(Biology), Radiation effects**  
NTIS/PS-75/551/2GSB

**Cellular plastics**  
NTIS/PS-75/635/3GSB

**Cellular plastics, Polyurethane foams**  
NTIS/PS-75/634/6GSB

**Cement, Prestressing**  
NTIS/PS-76/0098/4GSB

**Cements, Construction materials**  
NTIS/PS-75/390/5GSB

**Central city, Redevelopment**  
NTIS/PS-75/301/2GSB

**Ceramic materials, Fracture**  
NTIS/PS-75/217/0GSB

**Ceramics, Lightweight armor**  
NTIS/PS-75/136/2GSB  
NTIS/PS-76/0106/5GSB

**Cetacea**  
NTIS/PS-76/0111/5GSB

**Cetacea, Auditory perception**  
NTIS/PS-76/0008/3GSB

**Cetacea, Echolocation**  
NTIS/PS-76/0008/3GSB

**Character recognition devices**  
NTIS/PS-75/892/0GSB

**Charge coupled devices**  
NTIS/PS-75/275/8GSB

**Chars**  
NTIS/PS-75/617/1GSB

**Chemical analysis, Aerosols**  
NTIS/PS-75/527/2GSB

**Chemical analysis, Archaeology**  
NTIS/PS-75/859/9GSB

**Chemical analysis, Electrochemical method**  
NTIS/PS-75/627/0GSB

**Chemical analysis, Ion specific electrode**  
NTIS/PS-75/622/1GSB

**Chemical analysis, Lubricating oils**  
NTIS/PS-75/688/2GSB

**Chemical analysis, Nitrogen oxides**  
NTIS/PS-75/608/0GSB

**Chemical analysis, Oil pollution**  
NTIS/PS-75/595/9GSB

**Chemical analysis, Steels**  
NTIS/PS-75/289/9GSB

**Chemical analysis, Water pollution**  
NTIS/PS-76/0037/2GSB  
NTIS/PS-76/0038/0GSB

**Chemical analysis, X ray fluorescence**  
NTIS/PS-75/584/3GSB

**Chemical industry, Pollution**  
NTIS/PS-75/541/3GSB

**Chemical lasers, Hydrogen fluoride**  
NTIS/PS-75/733/6GSB

**Chemical reactions, Silicone resins**  
NTIS/PS-76/0057/0GSB



<b>Chemical vapor deposition</b> NTIS/PS-75/477/0GSB	<b>Civil disturbances, Control</b> NTIS/PS-75/730/2GSB	<b>Coal mines, Mine ventilation</b> NTIS/PS-75/196/6GSB
<b>Chemical warfare agents, Biochemistry</b> NTIS/PS-75/837/5GSB	<b>Civil engineering, Dredge spoil</b> NTIS/PS-75/755/9GSB	<b>Coal mines, Occupational health • safety</b> NTIS/PS-75/564/5GSB
<b>Chemical warfare agents, Biology • chem.</b> NTIS/PS-75/834/2GSB	<b>Civil insurgency</b> NTIS/PS-75/700/5GSB	<b>Coal mines, Solid waste disposal</b> NTIS/PS-75/112/3GSB NTIS/PS-76/0053/9GSB
<b>Chemical warfare agents, Decontamination</b> NTIS/PS-75/833/4GSB	<b>Civilian personnel, Career development</b> NTIS/PS-76/0116/4GSB	<b>Coal mining, Strip mining</b> NTIS/PS-75/751/8GSB
<b>Chemical warfare agents, Defoliants</b> NTIS/PS-75/835/9GSB	<b>Clams, Aquaculture</b> NTIS/PS-75/305/3GSB	<b>Coal preparation</b> NTIS/PS-75/593/4GSB
<b>Chemical warfare agents, Detection</b> NTIS/PS-75/832/6GSB	<b>Cleaning agents, Surfactants</b> NTIS/PS-76/0110/7GSB	<b>Coal, Pyrite</b> NTIS/PS-75/593/4GSB
<b>Chemical warfare agents, Dissemination</b> NTIS/PS-75/836/7GSB	<b>Clear air turbulence</b> NTIS/PS-75/761/7GSB	<b>Coastal zone management, Water pollution</b> NTIS/PS-75/698/1GSB
<b>Chemical warfare agents, Waste disposal</b> NTIS/PS-75/833/4GSB	<b>Closed circuit television, Cable TV</b> NTIS/PS-75/404/4GSB	<b>Coasts, Salt marshes</b> NTIS/PS-75/426/7GSB
<b>Chemotherapeutic agents, Cancer</b> NTIS/PS-75/509/0GSB	<b>Closed loop control systems, Feedback con</b> NTIS/PS-75/364/0GSB	<b>Coatings, Chemical vapor deposition</b> NTIS/PS-75/477/0GSB
<b>Chemotherapy, Burns</b> NTIS/PS-76/0104/0GSB	<b>Closed loop systems, Feedback control</b> NTIS/PS-75/364/0GSB	<b>Coatings, Electrodeposition</b> NTIS/PS-75/330/1GSB NTIS/PS-75/331/9GSB
<b>Chlorohydrocarbons, Toxicity</b> NTIS/PS-75/387/1GSB	<b>Cloud seeding</b> NTIS/PS-75/395/4GSB	<b>Coatings, Plasma flame spraying</b> NTIS/PS-76/0047/1GSB NTIS/PS-76/0048/9GSB NTIS/PS-76/0049/7GSB
<b>Cholinesterase inhibitors</b> NTIS/PS-75/837/5GSB	<b>Cloud seeding, Effects and management</b> NTIS/PS-75/722/9GSB	<b>Coatings, Solar cells • collectors</b> NTIS/PS-75/692/4GSB
<b>Cholinesterase reactivators</b> NTIS/PS-75/837/5GSB	<b>Cloud seeding, Fog dispersal</b> NTIS/PS-75/750/0GSB	<b>Cobalt alloys Superalloys</b> NTIS/PS-76/0107/3GSB
<b>Chromosomes, Radiation effects</b> NTIS/PS-75/551/2GSB	<b>CNS disorders</b> NTIS/PS-75/889/6GSB	<b>Cobalt alloys, Superalloys</b> NTIS/PS-76/0108/1GSB NTIS/PS-76/0109/9GSB
<b>Chronic obstructive lung disease</b> NTIS/PS-75/273/3GSB	<b>CNS stimulants, Pharmacology</b> NTIS/PS-75/489/5GSB	<b>Coding, Shift registers</b> NTIS/PS-75/879/7GSB
<b>Chronic obstructive pulmonary disease</b> NTIS/PS-75/273/3GSB	<b>Coagulation, Wastewater treatment</b> NTIS/PS-75/582/7GSB	<b>Coke</b> NTIS/PS-75/617/1GSB
<b>Cigarette smoking</b> NTIS/PS-76/0074/5GSB	<b>Coal, Beneficiation</b> NTIS/PS-75/593/4GSB	<b>Cold injuries</b> NTIS/PS-75/170/1GSB
<b>Circuit protection, Overvoltage</b> NTIS/PS-76/0119/8GSB	<b>Coal combustion, Fluidized bed combustion</b> NTIS/PS-76/0161/0GSB NTIS/PS-76/0162/8GSB	<b>Cold stress</b> NTIS/PS-75/170/1GSB
<b>Circuits, Printed circuits</b> NTIS/PS-76/0154/5GSB NTIS/PS-76/0155/2GSB NTIS/PS-76/0156/0GSB	<b>Coal, Desulfurization</b> NTIS/PS-75/381/4GSB	<b>Cold weather construction</b> NTIS/PS-75/394/7GSB
<b>Citizen participation, Local government</b> NTIS/PS-75/216/2GSB	<b>Coal gasification</b> NTIS/PS-75/385/5GSB NTIS/PS-75/386/3GSB	<b>Cold weather, Stress</b> NTIS/PS-75/170/1GSB
<b>Citizen participation, Rehabilitation</b> NTIS/PS-75/754/2GSB	<b>Coal gasification, Environmental impacts</b> NTIS/PS-75/371/5GSB	<b>Coliform bacteria, Water pollution</b> NTIS/PS-76/0120/6GSB
<b>Citizen participation, Urban development</b> NTIS/PS-75/570/2GSB	<b>Coal liquefaction</b> NTIS/PS-75/385/5GSB NTIS/PS-75/386/3GSB	<b>Collective bargaining</b> NTIS/PS-76/0124/8GSB
<b>Citizen participation, Urban planning</b> NTIS/PS-75/696/5GSB	<b>Coal liquefaction, Environmental impacts</b> NTIS/PS-75/371/5GSB	<b>Collision avoidance, Aircraft</b> NTIS/PS-75/671/8GSB
<b>Civil aviation, Demands needs</b> NTIS/PS-76/0045/5GSB	<b>Coal mines, Mine fires</b> NTIS/PS-75/562/9GSB	<b>Collision avoidance, Marine transportation</b> NTIS/PS-75/671/8GSB
<b>Civil defense, Warfare agents</b> NTIS/PS-75/836/7GSB	<b>Coal mines, Mine safety</b> NTIS/PS-75/566/0GSB	<b>Collision avoidance, Motor vehicles</b> NTIS/PS-75/671/8GSB



**Collision avoidance, Rail transportation**  
NTIS/PS-75/671/8GSB

**Color vision**  
NTIS/PS-76/0059/6GSB

**Combined sewers**  
NTIS/PS-75/602/3GSB  
NTIS/PS-75/603/1GSB

**Combustion, Fluidized bed processing**  
NTIS/PS-76/0161/0GSB  
NTIS/PS-76/0162/8GSB

**Combustion, Plastics**  
NTIS/PS-75/728/6GSB

**Combustion products, Air pollution detect**  
NTIS/PS-75/828/4GSB

**Combustion products, Plastics**  
NTIS/PS-75/728/6GSB

**Communication and radio systems, Mobile**  
NTIS/PS-75/546/2GSB

**Communication and radio systems, SSB**  
NTIS/PS-75/449/9GSB

**Communication equipment, Vocoders**  
NTIS/PS-75/680/9GSB

**Communication systems, Coding**  
NTIS/PS-75/398/8GSB

**Communication systems, Underground mines**  
NTIS/PS-75/563/7GSB

**Communication systems, Walsh functions**  
NTIS/PS-75/378/0GSB

**Communications management, Radiofrequency**  
NTIS/PS-76/0054/7GSB

**Communications networks**  
NTIS/PS-75/524/9GSB

**Communications networks, Network flows**  
NTIS/PS-75/694/0GSB

**Communications, Telephone systems**  
NTIS/PS-75/516/5GSB

**Communities, Population projections**  
NTIS/PS-75/682/5GSB

**Community projects, Volunteers**  
NTIS/PS-75/754/2GSB

**Community relations, Law enforcement**  
NTIS/PS-75/695/7GSB

**Commuting, Travel time**  
NTIS/PS-76/0002/6GSB

**Compilers, Reliability**  
NTIS/PS-75/486/1GSB

**Compilers, Standards**  
NTIS/PS-75/416/8GSB

**Composite materials, Boron reinforced**  
NTIS/PS-75/414/3GSB

**Composite materials, Carbon • graphite**  
NTIS/PS-75/614/8GSB

**Composite materials, Carbon • graphite fl**  
NTIS/PS-75/612/2GSB  
NTIS/PS-75/613/0GSB

**Composite materials, Metal matrix**  
NTIS/PS-75/422/6GSB

**Composite materials, Reinforced plastics**  
NTIS/PS-76/0063/8GSB  
NTIS/PS-76/0064/6GSB

**Compumetrics**  
NTIS/PS-75/753/4GSB

**Computational linguistics**  
NTIS/PS-75/759/1GSB

**Computer aided diagnosis**  
NTIS/PS-75/507/4GSB

**Computer aided instruction**  
NTIS/PS-75/556/1GSB  
NTIS/PS-75/557/9GSB

**Computer applications, Computer graphics**  
NTIS/PS-76/0077/8GSB  
NTIS/PS-76/0078/6GSB

**Computer applications, Medicine**  
NTIS/PS-75/507/4GSB

**Computer graphics**  
NTIS/PS-75/158/6GSB  
NTIS/PS-76/0077/8GSB  
NTIS/PS-76/0078/6GSB

**Computer information security**  
NTIS/PS-75/437/4GSB

**Computer networks**  
NTIS/PS-75/524/9GSB

**Computer networks, Information retrieval**  
NTIS/PS-75/513/2GSB

**Computer performance evaluation**  
NTIS/PS-75/753/4GSB

**Computer privacy**  
NTIS/PS-75/437/4GSB

**Computer program reliability**  
NTIS/PS-75/486/1GSB

**Computer programming, Automatic**  
NTIS/PS-75/594/2GSB

**Computer programming, Computations**  
NTIS/PS-75/485/3GSB

**Computer programming language, Design**  
NTIS/PS-75/588/4GSB

**Computer programming, Logic design**  
NTIS/PS-75/831/8GSB

**Computer programming, Natural language**  
NTIS/PS-75/864/9GSB

**Computer programming, Standards**  
NTIS/PS-75/416/8GSB

**Computer programming, Structured program**  
NTIS/PS-75/501/7GSB

**Computer programs, Maintenance**  
NTIS/PS-75/355/8GSB

**Computer programs, Standards**  
NTIS/PS-75/416/8GSB

**Computer programs, Structural analysis**  
NTIS/PS-75/428/3GSB

**Computer programs, Verification**  
NTIS/PS-75/486/1GSB

**Computer software, Avionics**  
NTIS/PS-76/0042/2GSB

**Computer software, Spaceborne**  
NTIS/PS-76/0043/0GSB

**Computer software, Trends**  
NTIS/PS-75/657/7GSB

**Computer storage devices, Magnetic domain**  
NTIS/PS-75/686/6GSB

**Computer storage devices, Management**  
NTIS/PS-75/528/0GSB

**Computer storage devices, RAM**  
NTIS/PS-75/811/0GSB

**Computer storage devices, Semiconductors**  
NTIS/PS-75/274/1GSB

**Computer storage management**  
NTIS/PS-75/528/0GSB

**Computer storage, Optical memories**  
NTIS/PS-76/0034/9GSB

**Computers, Microcomputers**  
NTIS/PS-75/251/9GSB

**Computers, Minicomputers**  
NTIS/PS-75/572/8GSB

**Computers, Performance evaluation**  
NTIS/PS-75/753/4GSB

**Computers, Speech recognition**  
NTIS/PS-75/495/2GSB

**Computers, Trends**  
NTIS/PS-75/657/7GSB

**Concrete, Bridges**  
NTIS/PS-75/888/8GSB

**Concrete pavements, Highways**  
NTIS/PS-75/677/5GSB  
NTIS/PS-75/678/3GSB  
NTIS/PS-75/679/1GSB

**Concrete polymer composites**  
NTIS/PS-75/475/4GSB

**Concrete, Prestressed**  
NTIS/PS-76/0098/4GSB

**Concretes, Construction materials**  
NTIS/PS-75/390/5GSB



<b>Concretes, X rays</b> NTIS/PS-76/0062/0GSB	<b>Contact printers</b> NTIS/PS-75/865/6GSB	<b>Cosmology, Astrophysical research</b> NTIS/PS-76/0126/3GSB
<b>Congenital abnormalities</b> NTIS/PS-75/849/0GSB	<b>Containerization, Cargo ships</b> NTIS/PS-75/284/0GSB	<b>Cost analysis, Aquaculture</b> NTIS/PS-75/883/9GSB
<b>Construction, Cold weather construction</b> NTIS/PS-75/394/7GSB	<b>Containerships, Containerization</b> NTIS/PS-75/284/0GSB	<b>Costs, Life cycles</b> NTIS/PS-75/875/5GSB
<b>Construction, Construction materials</b> NTIS/PS-75/389/7GSB NTIS/PS-75/390/5GSB	<b>Continental shelves, Minerals</b> NTIS/PS-75/392/1GSB	<b>Costs, Medical services</b> NTIS/PS-76/0018/2GSB
<b>Construction equipment</b> NTIS/PS-75/391/3GSB	<b>Continental slopes, Gas wells</b> NTIS/PS-75/540/5GSB	<b>Coulometry, Chemical analysis</b> NTIS/PS-75/627/0GSB
<b>Construction management</b> NTIS/PS-75/352/5GSB	<b>Contraceptives</b> NTIS/PS-75/880/5GSB	<b>Counseling, Family relations</b> NTIS/PS-75/720/3GSB
<b>Construction materials, Bridges</b> NTIS/PS-75/888/8GSB	<b>Control theory</b> NTIS/PS-75/503/3GSB NTIS/PS-75/504/1GSB	<b>Counterinsurgency, Military</b> NTIS/PS-75/701/3GSB
<b>Construction materials, Cements</b> NTIS/PS-75/390/5GSB	<b>Convulsive disorders</b> NTIS/PS-75/889/6GSB	<b>Crack growth, Finite element analysis</b> NTIS/PS-75/467/1GSB
<b>Construction materials, Concrete-polymer</b> NTIS/PS-75/475/4GSB	<b>Cooling, Cryogenics</b> NTIS/PS-75/825/0GSB NTIS/PS-75/826/8GSB	<b>Crack growth, Mathematical analysis</b> NTIS/PS-75/466/3GSB
<b>Construction materials, Concretes</b> NTIS/PS-75/390/5GSB	<b>Cooling, Heat pipes</b> NTIS/PS-75/316/0GSB NTIS/PS-75/317/8GSB	<b>Crack growth, Stresses</b> NTIS/PS-75/465/5GSB
<b>Construction materials, Fiberboards</b> NTIS/PS-75/389/7GSB NTIS/PS-76/0159/4GSB NTIS/PS-76/0160/2GSB	<b>Cooling towers, Electric power plants</b> NTIS/PS-75/549/6GSB	<b>Crack propagation, Finite element analysis</b> NTIS/PS-75/466/3GSB
<b>Construction materials, Gypsum products</b> NTIS/PS-75/389/7GSB	<b>Copper lasers, Metal vapor lasers</b> NTIS/PS-75/625/4GSB	<b>Crack propagation, Mathematical analysis</b> NTIS/PS-75/467/1GSB
<b>Construction materials, Highway pavements</b> NTIS/PS-75/672/6GSB NTIS/PS-75/673/4GSB NTIS/PS-75/674/2GSB NTIS/PS-75/677/5GSB NTIS/PS-75/678/3GSB NTIS/PS-75/679/1GSB	<b>Copyrights</b> NTIS/PS-75/146/1GSB	<b>Crack propagation, Stresses</b> NTIS/PS-75/465/5GSB
<b>Construction materials, Panels</b> NTIS/PS-75/389/7GSB	<b>Coronary artery disease</b> NTIS/PS-76/0117/2GSB NTIS/PS-76/0118/0GSB	<b>Cracks, Stress analysis</b> NTIS/PS-75/466/3GSB NTIS/PS-75/467/1GSB
<b>Construction materials, Wood</b> NTIS/PS-75/389/7GSB	<b>Corrosion, Air pollution</b> NTIS/PS-75/760/9GSB	<b>Cracks, Stresses</b> NTIS/PS-75/465/5GSB
<b>Construction materials, Wood products</b> NTIS/PS-76/0157/8GSB	<b>Corrosion, Boilers</b> NTIS/PS-75/555/3GSB	<b>Cranes, Construction equipment</b> NTIS/PS-75/391/3GSB
<b>Construction, Permafrost</b> NTIS/PS-76/0070/3GSB	<b>Corrosion, Cavitation</b> NTIS/PS-76/0166/9GSB	<b>Crash tests, Vehicles</b> NTIS/PS-75/651/0GSB
<b>Construction, Snow</b> NTIS/PS-75/719/5GSB	<b>Corrosion, Desalting</b> NTIS/PS-76/0173/5GSB NTIS/PS-76/0174/3GSB	<b>Crashworthiness, Passenger vehicles</b> NTIS/PS-75/651/0GSB
<b>Construction, Winter</b> NTIS/PS-75/394/7GSB	<b>Corrosion prevention, Cathodic protection</b> NTIS/PS-75/241/0GSB	<b>Crassostrea</b> NTIS/PS-75/718/7GSB
<b>Consumer affairs</b> NTIS/PS-75/409/3GSB	<b>Corrosion, Sea water</b> NTIS/PS-76/0058/8GSB	<b>Creep, Titanium</b> NTIS/PS-75/538/9GSB
<b>Consumer products</b> NTIS/PS-75/409/3GSB	<b>Corrosion, Stainless steels</b> NTIS/PS-76/0114/9GSB	<b>Crime prevention</b> NTIS/PS-75/425/9GSB
<b>Consumer products, Fabric flammability</b> NTIS/PS-75/757/5GSB	<b>Corrosion, Stress corrosion of steel</b> NTIS/PS-75/785/6GSB	<b>Crime prevention, detectors</b> NTIS/PS-75/809/4GSB
<b>Consumer products, Truth in advertising</b> NTIS/PS-76/0030/7GSB	<b>Corrosion, Stress corrosion-stainless steel</b> NTIS/PS-75/786/4GSB	<b>Crimes</b> NTIS/PS-75/425/9GSB
	<b>Cosmic rays</b> NTIS/PS-75/134/7GSB	<b>Crimes, Transportation</b> NTIS/PS-75/732/8GSB
	<b>Cosmological models, Universe</b> NTIS/PS-76/0126/3GSB	<b>Criminal justice, Adults</b> NTIS/PS-75/711/2GSB
		<b>Criminal justice, Parole</b> NTIS/PS-75/145/3GSB



<b>Criminal psychology</b> NTIS/PS-75/758/3GSB	<b>Data transmission</b> NTIS/PS-75/398/8GSB	<b>Design to cost</b> NTIS/PS-75/875/5GSB
<b>Criminology, Adolescents</b> NTIS/PS-75/626/2GSB	<b>Data transmission, Microwaves</b> NTIS/PS-75/250/1GSB	<b>Desulfurization, Coal</b> NTIS/PS-75/381/4GSB
<b>Criminology, Community relations</b> NTIS/PS-75/695/7GSB	<b>DDD-DDE Insecticides</b> NTIS/PS-75/640/3GSB	<b>Desulfurization, Petroleum</b> NTIS/PS-75/381/4GSB
<b>Criminology, Forensic medicine</b> NTIS/PS-75/245/1GSB	<b>DDT</b> NTIS/PS-75/640/3GSB	<b>Detection, Optical radar</b> NTIS/PS-75/402/8GSB
<b>Criminology, Psychology</b> NTIS/PS-75/758/3GSB	<b>Deaf, Rehabilitation</b> NTIS/PS-76/0028/1GSB	<b>Detection probability, Camouflage</b> NTIS/PS-76/0079/4GSB
<b>Cryobiology</b> NTIS/PS-75/508/2GSB	<b>Decision making, Management planning</b> NTIS/PS-75/500/9GSB	<b>Detectors, Fog</b> NTIS/PS-76/0096/8GSB
<b>Cryogenics, Aluminum</b> NTIS/PS-75/192/5GSB	<b>Decoding, Signal processing</b> NTIS/PS-75/398/8GSB	<b>Detectors, Ice</b> NTIS/PS-76/0096/8GSB
<b>Cryogenics, Refrigerator</b> NTIS/PS-75/825/0GSB	<b>Decompression sickness, Diving</b> NTIS/PS-75/278/2GSB	<b>Detente, Foreign policy</b> NTIS/PS-76/0178/4GSB
<b>Cryogenics, Refrigerators</b> NTIS/PS-75/826/8GSB	<b>Deepwater ports</b> NTIS/PS-75/510/8GSB	<b>Detergents, Cleaning agents</b> NTIS/PS-76/0110/7GSB
<b>Cryopreservation</b> NTIS/PS-75/508/2GSB	<b>Defoliants, Chemical warfare agents</b> NTIS/PS-75/835/9GSB	<b>Deterrence, International relations</b> NTIS/PS-76/0178/4GSB
<b>Cryoprotective agents</b> NTIS/PS-75/508/2GSB	<b>Demoulators, Modulators</b> NTIS/PS-75/782/3GSB	<b>Deuterium fluoride lasers</b> NTIS/PS-75/733/6GSB
<b>Cryosurgery</b> NTIS/PS-75/508/2GSB	<b>Dental equipment</b> NTIS/PS-75/340/0GSB NTIS/PS-75/512/4GSB	<b>Dexsil polymers</b> NTIS/PS-75/554/6GSB
<b>Crystal growth, Gallium arsenides</b> NTIS/PS-76/0102/4GSB	<b>Dental materials</b> NTIS/PS-75/340/0GSB NTIS/PS-75/512/4GSB	<b>Dial-a-ride</b> NTIS/PS-75/665/0GSB
<b>Culicidae, Disease vectors</b> NTIS/PS-75/360/8GSB NTIS/PS-75/361/6GSB	<b>Dental prostheses</b> NTIS/PS-75/511/6GSB	<b>Diesel engines, Exhaust gases</b> NTIS/PS-76/0007/5GSB
<b>Cyanoacrylate, Tissue adhesives</b> NTIS/PS-75/440/8GSB	<b>Dentistry</b> NTIS/PS-75/315/2GSB	<b>Differential equations, Computations</b> NTIS/PS-75/485/3GSB
<b>Dams, Fishways</b> NTIS/PS-75/868/0GSB	<b>Dentistry, Implantation</b> NTIS/PS-75/511/6GSB	<b>Diffusion bonding</b> NTIS/PS-75/771/6GSB
<b>Dams, Sedimentation</b> NTIS/PS-75/886/2GSB	<b>Dentistry, Materials</b> NTIS/PS-75/340/0GSB	<b>Digital communications, Troposcatter</b> NTIS/PS-75/459/8GSB
<b>Dark adaptation</b> NTIS/PS-76/0133/9GSB	<b>Dentistry, Materials and equipment</b> NTIS/PS-75/512/4GSB	<b>Digital filters, Band pass filters</b> NTIS/PS-76/0145/3GSB NTIS/PS-76/0146/1GSB
<b>Data compression</b> NTIS/PS-75/860/7GSB	<b>Dentistry, Protheses</b> NTIS/PS-75/511/6GSB	<b>Diodes, IMPATT diodes</b> NTIS/PS-75/149/5GSB
<b>Data links, Air traffic control</b> NTIS/PS-76/0039/8GSB	<b>Deposition, Chemical vapor deposition</b> NTIS/PS-75/477/0GSB	<b>Diodes, Schottky defects</b> NTIS/PS-76/0065/3GSB NTIS/PS-76/0066/1GSB
<b>Data processing equipment, Spaceborne</b> NTIS/PS-76/0043/0GSB	<b>Desalting, Corrosion</b> NTIS/PS-76/0173/5GSB NTIS/PS-76/0174/3GSB	<b>Disabilities, Vocational guidance</b> NTIS/PS-76/0028/1GSB
<b>Data processing, Network flows</b> NTIS/PS-75/694/0GSB	<b>Desalting, Electrodialysis</b> NTIS/PS-76/0011/7GSB NTIS/PS-76/0012/5GSB	<b>Disadvantaged groups, Migrant workers</b> NTIS/PS-75/240/2GSB
<b>Data processing, Remote sensing</b> NTIS/PS-76/0055/4GSB	<b>Desalting, Membranes</b> NTIS/PS-76/0083/6GSB NTIS/PS-76/0084/4GSB	<b>Disadvantaged groups, Youth</b> NTIS/PS-75/650/2GSB
<b>Data processing security</b> NTIS/PS-75/437/4GSB	<b>Design, Bridges</b> NTIS/PS-75/888/8GSB	<b>Disarmament, Arms control</b> NTIS/PS-75/393/9GSB
<b>Data processing terminals, Networks</b> NTIS/PS-75/524/9GSB	<b>Design, Experimental design</b> NTIS/PS-75/776/5GSB	<b>Disasters, Management planning</b> NTIS/PS-75/683/3GSB
<b>Data retrieval, Biomedical information</b> NTIS/PS-75/891/2GSB		<b>Discrete address beacon systems</b> NTIS/PS-76/0039/8GSB
<b>Data retrieval, User studies</b> NTIS/PS-75/189/1GSB		



<b>Disease vectors, Insects</b> NTIS/PS-75/360/8GSB NTIS/PS-75/361/6GSB	<b>Drug abuse</b> NTIS/PS-75/147/9GSB	NTIS/PS-76/0036/4GSB
<b>Disease vectors, Malaria</b> NTIS/PS-75/307/9GSB NTIS/PS-75/308/7GSB	<b>Drug addiction</b> NTIS/PS-75/147/9GSB	<b>Ecology, Models</b> NTIS/PS-75/088/5GSB NTIS/PS-75/846/6GSB
<b>Diseases, Venereal diseases</b> NTIS/PS-75/777/3GSB	<b>Drugs, Cancer</b> NTIS/PS-75/509/0GSB	<b>Ecology, Oceans</b> NTIS/PS-75/329/3GSB
<b>Display devices, Liquid crystals</b> NTIS/PS-75/591/8GSB	<b>Drugs, Malaria</b> NTIS/PS-75/307/9GSB NTIS/PS-75/308/7GSB	<b>Ecology, Oil spills</b> NTIS/PS-76/0033/1GSB
<b>Display systems, Electroluminescence</b> NTIS/PS-75/742/7GSB	<b>Dual mode transportation</b> NTIS/PS-75/287/3GSB	<b>Ecology, Oysters</b> NTIS/PS-75/718/7GSB
<b>Display systems, Graphic arts</b> NTIS/PS-75/791/4GSB	<b>Dust control, Soil stabilization</b> NTIS/PS-75/470/5GSB	<b>Ecology, Polychlorinated biphenyls</b> NTIS/PS-75/713/8GSB
<b>Divers, Communication</b> NTIS/PS-75/773/2GSB	<b>Dye lasers</b> NTIS/PS-75/539/7GSB	<b>Ecology, Salt marshes</b> NTIS/PS-75/426/7GSB
<b>Divers, Underwater breathing</b> NTIS/PS-75/774/0GSB	<b>Earnings, Surveys</b> NTIS/PS-75/567/8GSB NTIS/PS-75/568/6GSB	<b>Ecology, Thermal pollution</b> NTIS/PS-76/0128/9GSB NTIS/PS-76/0129/7GSB
<b>Divers, Underwater equipment</b> NTIS/PS-75/775/7GSB	<b>Earth crust, Structural geology</b> COM-73-11802/8GSB	<b>Economic characteristics, Ghettos</b> NTIS/PS-75/721/1GSB
<b>Diving, Breathing apparatus</b> NTIS/PS-75/774/0GSB	<b>Earth handling equipment, Construction</b> NTIS/PS-75/391/3GSB	<b>Economic development, Minority groups</b> NTIS/PS-75/853/2GSB
<b>Diving, Stress(Physiology)</b> NTIS/PS-75/278/2GSB	<b>Earth mantle, Structural geology</b> COM-73-11802/8GSB	<b>Economic development, American Indians</b> NTIS/PS-75/703/9GSB
<b>Documents, Automation</b> NTIS/PS-76/0075/2GSB	<b>Earth Resources Technology Satellite</b> NTIS/PS-75/104/0GSB NTIS/PS-76/0055/4GSB	<b>Economic forecasting, Population</b> NTIS/PS-75/682/5GSB
<b>Dogs, Law enforcement</b> NTIS/PS-75/648/6GSB	<b>Earthquake engineering, Buildings</b> NTIS/PS-75/632/0GSB NTIS/PS-75/633/8GSB	<b>Economic models</b> NTIS/PS-75/407/7GSB NTIS/PS-75/408/5GSB
<b>Drag reducing fluids</b> NTIS/PS-75/497/8GSB	<b>Earthquake resistant structures, Bridges</b> NTIS/PS-75/632/0GSB NTIS/PS-75/633/8GSB	<b>Economic surveys, Communication systems</b> NTIS/PS-75/400/2GSB
<b>Drainage, Forest land</b> NTIS/PS-75/856/5GSB	<b>Earthquakes, Insurance</b> NTIS/PS-75/606/4GSB	<b>Economics, Air pollution</b> NTIS/PS-75/535/5GSB
<b>Drawing(Forming), Metal drawing</b> NTIS/PS-75/162/8GSB	<b>Earthquakes, Seismic detection</b> NTIS/PS-75/326/9GSB	<b>Economics, Fertilizers</b> NTIS/PS-75/599/1GSB
<b>Dredge spoil, Ocean waste disposal</b> NTIS/PS-75/462/2GSB	<b>Earthquakes, Seismology</b> NTIS/PS-75/769/0GSB	<b>Economics, Inflation(Economics)</b> NTIS/PS-75/637/9GSB
<b>Dredge spoil, Solid waste disposal</b> NTIS/PS-75/755/9GSB	<b>Echo sounding, Ionosphere</b> NTIS/PS-75/641/1GSB	<b>Economics, Material shortages</b> NTIS/PS-76/0006/7GSB
<b>Dredging, Environmental effects</b> NTIS/PS-75/755/9GSB	<b>Echocardiography</b> NTIS/PS-75/175/0GSB	<b>Economics, Noise pollution</b> NTIS/PS-75/534/8GSB
<b>Drilling, Mohole project</b> NTIS/PS-75/725/2GSB	<b>Echoencephalography</b> NTIS/PS-75/175/0GSB	<b>Economics, Solid waste disposal</b> NTIS/PS-75/536/3GSB
<b>Drilling platforms, Mohole project</b> NTIS/PS-75/724/5GSB	<b>Echolocation, Cetacea</b> NTIS/PS-76/0008/3GSB	<b>Economics, Telecommunications</b> NTIS/PS-75/400/2GSB
<b>Drilling platforms, Positioning</b> NTIS/PS-75/726/0GSB	<b>Ecology, Biological productivity</b> NTIS/PS-76/0056/2GSB	<b>Economics, Water pollution</b> NTIS/PS-75/537/1GSB
<b>Drinking drivers</b> NTIS/PS-75/505/8GSB	<b>Ecology, DDT</b> NTIS/PS-75/640/3GSB	<b>Ecosystems, Models</b> NTIS/PS-75/088/5GSB NTIS/PS-75/846/6GSB
<b>Drivers, Training</b> NTIS/PS-76/0113/1GSB	<b>Ecology, Eutrophication</b> NTIS/PS-75/522/3GSB NTIS/PS-75/523/1GSB	<b>Education, Computer aided instruction</b> NTIS/PS-75/556/1GSB NTIS/PS-75/557/9GSB
<b>Driving, Motor vehicle operator behavior</b> NTIS/PS-75/619/7GSB	<b>Ecology, Insecticides</b> NTIS/PS-75/108/1GSB NTIS/PS-76/0035/6GSB	<b>Education, Individualized instruction</b> NTIS/PS-76/0017/4GSB
<b>Drones</b> NTIS/PS-75/876/3GSB		



<b>Education, Motor vehicle operators</b> NTIS/PS-76/0113/1GSB	<b>Electrochemical cells, Silver cells</b> NTIS/PS-75/649/4GSB	<b>Electroplating, Air pollution</b> NTIS/PS-75/383/0GSB
<b>Education, Simulators</b> NTIS/PS-75/335/0GSB	<b>Electrochemistry, ion selective electrode</b> NTIS/PS-75/622/1GSB	<b>Electroplating, Water pollution</b> NTIS/PS-75/382/2GSB
<b>Education, Visual aids</b> NTIS/PS-75/685/8GSB	<b>Electrochemistry, Surface chemistry</b> NTIS/PS-75/644/5GSB	<b>Electroretinography</b> NTIS/PS-75/526/4GSB
<b>Elastohydrodynamics</b> NTIS/PS-75/497/8GSB	<b>Electrodeposition</b> NTIS/PS-75/330/1GSB NTIS/PS-75/331/9GSB	<b>Electrostatic precipitators</b> NTIS/PS-75/587/6GSB
<b>Elastomers, Combustion</b> NTIS/PS-75/728/6GSB	<b>Electrodes, Surface chemistry</b> NTIS/PS-75/644/5GSB	<b>Elementary particles, Nuclear medicine</b> NTIS/PS-75/213/9GSB
<b>Elastomers, Heat resistant plastics</b> NTIS/PS-75/561/1GSB	<b>Electrodialysis, Desalting</b> NTIS/PS-76/0011/7GSB NTIS/PS-76/0012/5GSB	<b>Embankments, Erosion control</b> NTIS/PS-75/469/7GSB
<b>Elastomers, Polyurethane resins</b> NTIS/PS-75/744/3GSB NTIS/PS-75/745/0GSB	<b>Electrodialysis, Waste treatment</b> NTIS/PS-75/574/4GSB	<b>Emergency medical care</b> NTIS/PS-75/419/2GSB
<b>Elderly</b> NTIS/PS-75/548/8GSB	<b>Electroforming</b> NTIS/PS-75/330/1GSB NTIS/PS-75/331/9GSB	<b>Emergency medical services</b> NTIS/PS-76/0080/2GSB
<b>Elderly, Transportation</b> NTIS/PS-75/575/1GSB	<b>Electroluminescence, Display systems</b> NTIS/PS-75/742/7GSB	<b>Emergency planning, Disasters</b> NTIS/PS-75/683/3GSB
<b>Electric automobiles</b> NTIS/PS-75/490/3GSB	<b>Electroluminescence, Semiconductor diodes</b> NTIS/PS-75/415/0GSB	<b>Emission factors, Air pollution</b> NTIS/PS-75/410/1GSB
<b>Electric batteries, Electric automobiles</b> NTIS/PS-75/490/3GSB	<b>Electroluminescent panels</b> NTIS/PS-75/742/7GSB	<b>Emissions inventories, Nitrogen oxides</b> NTIS/PS-75/611/4GSB
<b>Electric batteries, Lead cells</b> NTIS/PS-75/472/1GSB	<b>Electromagnetic shielding</b> NTIS/PS-75/366/5GSB NTIS/PS-75/367/3GSB	<b>Employment, Attitudes</b> NTIS/PS-75/300/4GSB
<b>Electric batteries, Lithium cells</b> NTIS/PS-75/471/3GSB	<b>Electromagnetic suspension, Tracked air</b> NTIS/PS-76/0094/3GSB	<b>Employment, Females</b> NTIS/PS-76/0103/2GSB
<b>Electric batteries, Nickel cadmium cells</b> NTIS/PS-75/445/7GSB	<b>Electromagnets, Superconductors</b> NTIS/PS-75/636/1GSB	<b>Employment, Productivity</b> NTIS/PS-75/492/9GSB
<b>Electric power consumption</b> NTIS/PS-75/363/2GSB	<b>Electron beam semiconductor devices</b> NTIS/PS-76/0122/2GSB NTIS/PS-76/0123/0GSB	<b>Endangered species</b> NTIS/PS-75/881/3GSB
<b>Electric power demand</b> NTIS/PS-75/363/2GSB	<b>Electron beam welding</b> NTIS/PS-76/0136/2GSB NTIS/PS-76/0137/0GSB	<b>Energy conservation</b> NTIS/PS-75/214/7GSB
<b>Electric power generation, Cooling towers</b> NTIS/PS-75/549/6GSB	<b>Electron beams, Nuclear fusion</b> NTIS/PS-75/784/9GSB	<b>Energy conservation, Car pooling</b> NTIS/PS-75/854/0GSB
<b>Electric power generation, Hydrogen</b> NTIS/PS-75/379/8GSB	<b>Electron bombarded semiconductor devices</b> NTIS/PS-76/0122/2GSB NTIS/PS-76/0123/0GSB	<b>Energy conservation, Heat recovery</b> NTIS/PS-75/215/4GSB
<b>Electric power generation, MHD generators</b> NTIS/PS-75/448/1GSB	<b>Electron tube targets, Semiconductors</b> NTIS/PS-76/0122/2GSB NTIS/PS-76/0123/0GSB	<b>Energy consumption, Electric power</b> NTIS/PS-75/363/2GSB
<b>Electric power generation, solar energy</b> NTIS/PS-75/691/6GSB	<b>Electron tubes, Semiconductor devices</b> NTIS/PS-76/0122/2GSB NTIS/PS-76/0123/0GSB	<b>Energy consumption, Forecasting</b> NTIS/PS-76/0031/5GSB
<b>Electric power generation, Wind power</b> NTIS/PS-75/348/3GSB	<b>Electronic counter countermeasures</b> NTIS/PS-75/165/1GSB	<b>Energy, Geothermal energy</b> NTIS/PS-75/377/2GSB
<b>Electric power plants, Boiler corrosion</b> NTIS/PS-75/555/3GSB	<b>Electronic countermeasures</b> NTIS/PS-75/165/1GSB	<b>Energy policy, Planning</b> NTIS/PS-75/630/4GSB
<b>Electric power plants, Heat recovery</b> NTIS/PS-75/215/4GSB	<b>Electronic equipment, Ferrites</b> NTIS/PS-75/457/2GSB NTIS/PS-75/458/0GSB	<b>Energy policy, Research</b> NTIS/PS-75/630/4GSB
<b>Electric power plants, Thermal pollution</b> NTIS/PS-76/0127/1GSB		<b>Energy resources, Natural gas</b> NTIS/PS-75/463/0GSB
<b>Electrical networks, Logic design</b> NTIS/PS-75/831/8GSB		<b>Energy sources, Hydrogen</b> NTIS/PS-75/379/8GSB
<b>Electrochemical cells, Fuel cells</b> NTIS/PS-75/478/8GSB NTIS/PS-75/479/6GSB		<b>Energy sources, Solid wastes</b> NTIS/PS-75/655/1GSB
		<b>Energy storage, Flywheels</b> NTIS/PS-75/743/5GSB



<b>Engines, Wear analysis</b> NTIS/PS-75/688/2GSB	<b>Estuaries, Water quality management</b> NTIS/PS-75/698/1GSB	<b>Fast Fourier transform, Signal process</b> NTIS/PS-75/645/2GSB
<b>Entomology, Disease vectors</b> NTIS/PS-75/360/8GSB NTIS/PS-75/361/6GSB	<b>Ethnic groups, Economic development</b> NTIS/PS-75/853/2GSB	<b>Fatigue, Behavior</b> NTIS/PS-76/0095/0GSB
<b>Environment, Carcinogens</b> NTIS/PS-75/844/1GSB	<b>Ethnic groups, Minority business</b> NTIS/PS-75/845/8GSB	<b>Fatigue, Motor vehicle operators</b> NTIS/PS-75/620/5GSB
<b>Environmental effects, Dredging</b> NTIS/PS-75/755/9GSB	<b>Eutrophication</b> NTIS/PS-75/522/3GSB NTIS/PS-75/523/1GSB	<b>Fatigue, Performance(Human)</b> NTIS/PS-76/0095/0GSB
<b>Environmental Impact Statements</b> NTIS/PS-75/717/9GSB	<b>Eutrophication, Sediment Interactions</b> NTIS/PS-76/0021/6GSB	<b>Federal Trade Commission substantiation</b> NTIS/PS-76/0030/7GSB
<b>Environmental impacts, Cooling towers</b> NTIS/PS-75/549/6GSB	<b>Excavation, Tunneling(Excavation)</b> NTIS/PS-75/550/4GSB	<b>Feedback control</b> NTIS/PS-75/503/3GSB NTIS/PS-75/504/1GSB
<b>Environmental impacts, Fuel conversion</b> NTIS/PS-75/371/5GSB	<b>Exhaust gases, Air pollution detection</b> NTIS/PS-75/310/3GSB	<b>Feedback control, Adaptive control system</b> NTIS/PS-75/364/0GSB
<b>Environmental impacts, Oil shale</b> NTIS/PS-75/362/4GSB	<b>Exhaust gases, Aircraft exhaust</b> NTIS/PS-75/491/1GSB	<b>Feedlot wastes</b> NTIS/PS-75/531/4GSB
<b>Environmental impacts, Sanguine Project</b> NTIS/PS-76/0003/4GSB	<b>Exhaust gases, Diesel engines</b> NTIS/PS-76/0007/5GSB	<b>Females, Employment</b> NTIS/PS-76/0103/2GSB
<b>Environmental impacts, Strip mining</b> NTIS/PS-75/751/8GSB	<b>Expanded plastics</b> NTIS/PS-75/635/3GSB	<b>Ferrimagnetic materials, Ferrites</b> NTIS/PS-75/457/2GSB NTIS/PS-75/458/0GSB
<b>Environmental impacts, Water resources</b> NTIS/PS-75/374/9GSB	<b>Expanded plastics, Polyurethane foams</b> NTIS/PS-75/634/6GSB	<b>Ferrites, Microwave equipment</b> NTIS/PS-75/457/2GSB NTIS/PS-75/458/0GSB
<b>Environmental surveys, Beryllium</b> NTIS/PS-75/772/4GSB	<b>Expansion joints</b> NTIS/PS-75/795/5GSB	<b>Fertilization, Water pollution</b> NTIS/PS-75/740/1GSB
<b>Environmental surveys, Power plant siting</b> NTIS/PS-75/748/4GSB	<b>Experimental design, Statistical design</b> NTIS/PS-75/776/5GSB	<b>Fertilizers</b> NTIS/PS-75/599/1GSB
<b>Epilepsy</b> NTIS/PS-75/889/6GSB	<b>Explosions, Mine safety</b> NTIS/PS-75/562/9GSB	<b>Fiber optics</b> NTIS/PS-75/420/0GSB
<b>Epitaxial growth, Gallium arsenides</b> NTIS/PS-76/0102/4GSB	<b>Explosive forming</b> NTIS/PS-76/0020/8GSB	<b>Fiberboards</b> NTIS/PS-76/0157/8GSB NTIS/PS-76/0159/4GSB NTIS/PS-76/0160/2GSB
<b>Equations, Computer programming</b> NTIS/PS-75/485/3GSB	<b>Explosives detection, Dogs</b> NTIS/PS-75/648/6GSB	<b>Fiberglass reinforced plastics</b> NTIS/PS-76/0063/8GSB
<b>Equipment, Dentistry</b> NTIS/PS-75/512/4GSB	<b>Extremely low frequency, Sanguine</b> NTIS/PS-76/0003/4GSB	<b>Fibers, Carbon and graphite fibers</b> NTIS/PS-75/612/2GSB NTIS/PS-75/613/0GSB
<b>Erosion and corrosion, Turbine blades</b> NTIS/PS-76/0081/0GSB NTIS/PS-76/0082/8GSB	<b>Eye diseases, Nystagmus</b> NTIS/PS-76/0143/8GSB	<b>Fibers, Fire resistant materials</b> NTIS/PS-75/757/5GSB
<b>Erosion, Cavitation</b> NTIS/PS-76/0166/9GSB	<b>Eye, Electrophysiology</b> NTIS/PS-75/526/4GSB	<b>Filter aids, Sewage filtration</b> NTIS/PS-75/583/5GSB
<b>Erosion, Cavitation flow</b> NTIS/PS-76/0167/7GSB	<b>Fabrication, Marine propellers</b> NTIS/PS-75/768/2GSB	<b>Filtration, Sewage filtration</b> NTIS/PS-75/583/5GSB
<b>Erosion control, Soils</b> NTIS/PS-75/469/7GSB	<b>Fabrication, Ultrasonic fabrication</b> NTIS/PS-75/244/4GSB	<b>Financing, Housing</b> NTIS/PS-75/203/0GSB
<b>ERTS, Data processing</b> NTIS/PS-76/0055/4GSB	<b>Fabrication, Ultrasonic testing</b> NTIS/PS-75/270/9GSB NTIS/PS-75/271/7GSB	<b>Financing, Urban planning</b> NTIS/PS-75/199/0GSB NTIS/PS-75/202/2GSB
<b>ERTS, Management planning</b> NTIS/PS-75/104/0GSB	<b>Failure analysis, Engines</b> NTIS/PS-75/688/2GSB	<b>Financing, Urban transportation</b> NTIS/PS-75/200/6GSB NTIS/PS-75/201/4GSB
<b>Esthetics, Highways</b> NTIS/PS-76/0009/1GSB	<b>Family planning</b> NTIS/PS-75/880/5GSB	<b>Finite difference theory, Fluid flow</b> NTIS/PS-75/642/9GSB NTIS/PS-75/643/7GSB
<b>Estuaries, Sewage effects</b> NTIS/PS-75/430/9GSB	<b>Family relations, Counseling</b> NTIS/PS-75/720/3GSB	
	<b>Farm crops, Air pollution</b> NTIS/PS-76/0015/8GSB	
	<b>Farms, Animal waste control</b> NTIS/PS-75/531/4GSB	



<b>Finite element analysis, Fluid flow</b> NTIS/PS-75/642/9GSB NTIS/PS-75/643/7GSB	<b>NTIS/PS-75/674/2GSB</b>	<b>Fluid dynamics, Flow visualization</b> NTIS/PS-75/116/4GSB
<b>Finite element analysis, Structural analysis</b> NTIS/PS-75/496/0GSB	<b>Flight maneuvers, Noise pollution</b> NTIS/PS-75/762/5GSB	<b>Fluid dynamics, Holographic visualization</b> NTIS/PS-75/115/6GSB
<b>Fire alarm systems</b> NTIS/PS-75/793/0GSB	<b>Flight simulators, Pilot training</b> NTIS/PS-76/0068/7GSB	<b>Fluid flow, Boundary layer control</b> NTIS/PS-75/824/3GSB
<b>Fire detection systems</b> NTIS/PS-75/793/0GSB	<b>Flocculation, Wastewater treatment</b> NTIS/PS-75/582/7GSB	<b>Fluid flow, Boundary layer separation</b> NTIS/PS-75/814/4GSB NTIS/PS-75/815/1GSB
<b>Fire resistant textiles</b> NTIS/PS-75/757/5GSB	<b>Flood control</b> NTIS/PS-75/552/0GSB	<b>Fluid flow, Boundary layer transition</b> NTIS/PS-75/816/9GSB NTIS/PS-75/817/7GSB NTIS/PS-75/818/5GSB
<b>Fire safety, Buildings</b> NTIS/PS-75/652/8GSB	<b>Floodplains, Management</b> NTIS/PS-75/552/0GSB	<b>Fluid flow, Cascade flow</b> NTIS/PS-75/877/1GSB NTIS/PS-75/878/9GSB
<b>Fires, Buildings</b> NTIS/PS-75/652/8GSB	<b>Floods, Insurance</b> NTIS/PS-75/606/4GSB	<b>Fluid flow, Cavities</b> NTIS/PS-76/0040/6GSB NTIS/PS-76/0041/4GSB
<b>Fires, Insurance</b> NTIS/PS-75/606/4GSB	<b>Flotation, Wastewater treatment</b> NTIS/PS-75/582/7GSB	<b>Fluid flow, Fluidic control</b> NTIS/PS-76/0140/4GSB NTIS/PS-76/0141/2GSB
<b>Fires, Mine fires</b> NTIS/PS-75/562/9GSB	<b>Flow measurement, Hot film anemometry</b> NTIS/PS-75/664/3GSB	<b>Fluid flow, Numerical analysis</b> NTIS/PS-75/642/9GSB NTIS/PS-75/643/7GSB
<b>Fires, Plastics</b> NTIS/PS-75/728/6GSB	<b>Flow measurement, Hot wire anemometry</b> NTIS/PS-75/662/7GSB NTIS/PS-75/663/5GSB	<b>Fluid flow, Shear flow</b> NTIS/PS-75/822/7GSB
<b>Fish protein concentrates</b> NTIS/PS-75/862/3GSB	<b>Flow reattachment</b> NTIS/PS-75/823/5GSB	<b>Fluidic control, Fluidic amplifiers</b> NTIS/PS-76/0139/6GSB
<b>Fish protein concentrates, Food processing</b> NTIS/PS-75/576/9GSB NTIS/PS-75/577/7GSB	<b>Flow separation, Boundary layer</b> NTIS/PS-75/814/4GSB NTIS/PS-75/815/1GSB	<b>Fluidic devices, Fluidics</b> NTIS/PS-76/0140/4GSB NTIS/PS-76/0141/2GSB
<b>Fish repellents, Sharks</b> NTIS/PS-75/869/8GSB	<b>Flow visualization</b> NTIS/PS-75/116/4GSB	<b>Fluidics, Fluid amplification</b> NTIS/PS-76/0139/6GSB
<b>Fisheries, Economic development</b> NTIS/PS-75/882/1GSB NTIS/PS-75/883/9GSB	<b>Flow visualization, Holography</b> NTIS/PS-75/115/6GSB	<b>Fluidized bed combustion</b> NTIS/PS-76/0161/0GSB NTIS/PS-76/0162/8GSB
<b>Fisheries, Law(Jurisprudence)</b> NTIS/PS-75/111/5GSB	<b>Flue gases, Air pollution detection</b> NTIS/PS-75/828/4GSB	<b>Fluorohydrocarbons, Toxicity</b> NTIS/PS-75/387/1GSB
<b>Fishes, Aquaculture</b> NTIS/PS-75/304/6GSB	<b>Flue gases, Scrubbers</b> NTIS/PS-75/163/6GSB NTIS/PS-76/0050/5GSB NTIS/PS-76/0051/3GSB NTIS/PS-76/0052/1GSB	<b>Fly ash</b> NTIS/PS-75/646/0GSB
<b>Fishes, Economic indicators</b> NTIS/PS-75/883/9GSB	<b>Flueric devices, Fluid amplifiers</b> NTIS/PS-76/0139/6GSB	<b>Flywheels</b> NTIS/PS-75/743/5GSB
<b>Fishing Industry, Economics</b> NTIS/PS-75/882/1GSB	<b>Fluerics, Fluidic amplifiers</b> NTIS/PS-76/0140/4GSB NTIS/PS-76/0141/2GSB	<b>Foams, Expanded plastics</b> NTIS/PS-75/635/3GSB
<b>Fishing, Ocean law</b> NTIS/PS-75/712/0GSB	<b>Fluerics, Fluid control devices</b> NTIS/PS-76/0139/6GSB	<b>Foams, Polyurethane foams</b> NTIS/PS-75/634/6GSB
<b>Fishing, Oysters</b> NTIS/PS-75/718/7GSB	<b>Fluid amplifiers, Fluid control devices</b> NTIS/PS-76/0140/4GSB NTIS/PS-76/0141/2GSB	<b>Fog, Detection</b> NTIS/PS-76/0096/8GSB
<b>Fishing products, Marketing</b> NTIS/PS-75/882/1GSB	<b>Fluid control devices, Fluidics</b> NTIS/PS-76/0139/6GSB NTIS/PS-76/0140/4GSB	<b>Fog dispersal</b> NTIS/PS-75/750/0GSB
<b>Fishways</b> NTIS/PS-75/868/0GSB	<b>Fluid control devices, Fluidics</b> NTIS/PS-76/0141/2GSB	<b>Following aircraft, Trailing vortices</b> NTIS/PS-76/0072/9GSB
<b>Flame spraying, Coatings</b> NTIS/PS-76/0047/1GSB NTIS/PS-76/0048/9GSB NTIS/PS-76/0049/7GSB	<b>Fluid dynamics, Cavitation</b> NTIS/PS-76/0163/6GSB NTIS/PS-76/0164/4GSB	<b>Food additives, GRAS food ingredients</b> NTIS/PS-75/356/6GSB
<b>Flavor, Food</b> NTIS/PS-75/734/4GSB	<b>Fluid dynamics, Cavitation-hydrofoils</b> NTIS/PS-76/0165/1GSB	<b>Food, GRAS food ingredients</b> NTIS/PS-75/356/6GSB
<b>Flexible pavements, Highways</b> NTIS/PS-75/672/6GSB NTIS/PS-75/673/4GSB		



<b>Food Irradiation, Food processing</b> NTIS/PS-75/576/9GSB NTIS/PS-75/577/7GSB	<b>Foundations(Structures), Foundation eng</b> NTIS/PS-75/283/2GSB	<b>Gallium arsenide lasers</b> NTIS/PS-75/792/2GSB
<b>Food packaging</b> NTIS/PS-75/380/6GSB	<b>Fourier transformation, Signal processing</b> NTIS/PS-75/645/2GSB	<b>Gallium arsenides, Epitaxial growth</b> NTIS/PS-76/0102/4GSB
<b>Food processing</b> NTIS/PS-75/576/9GSB NTIS/PS-75/577/7GSB	<b>Fracture, Ceramic materials</b> NTIS/PS-75/217/0GSB	<b>Game theory, Management games</b> NTIS/PS-75/598/3GSB
<b>Food processing, Fish protein concentrate</b> NTIS/PS-75/862/3GSB	<b>Fracture, Cracks</b> NTIS/PS-75/465/5GSB	<b>Ganglia, Regeneration(Physiology)</b> NTIS/PS-75/592/6GSB
<b>Food processing, Waste treatment</b> NTIS/PS-75/484/6GSB	<b>Fracture, Stress analysis</b> NTIS/PS-75/466/3GSB NTIS/PS-75/467/1GSB	<b>Gas analysis, Automobile exhaust</b> NTIS/PS-75/310/3GSB
<b>Food, Shortages</b> NTIS/PS-76/0006/7GSB	<b>Freeze drying, Food processing</b> NTIS/PS-75/576/9GSB NTIS/PS-75/577/7GSB	<b>Gas bearings</b> NTIS/PS-75/807/8GSB NTIS/PS-75/808/6GSB
<b>Food storage</b> NTIS/PS-75/380/6GSB	<b>Freight transportation, Railroads</b> NTIS/PS-76/0169/3GSB	<b>Gas detection, Flue gases</b> NTIS/PS-75/828/4GSB
<b>Food storage, Taste</b> NTIS/PS-75/734/4GSB	<b>Freight, Travel time</b> NTIS/PS-76/0010/9GSB	<b>Gas detection, Warfare agents</b> NTIS/PS-75/832/6GSB
<b>Food, Synthetic foods</b> NTIS/PS-75/493/7GSB	<b>Frequency allocations</b> NTIS/PS-76/0054/7GSB	<b>Gas detectors, Nitrogen oxides</b> NTIS/PS-75/608/0GSB
<b>Food, Taste</b> NTIS/PS-75/734/4GSB	<b>Frequency converters, Infrared radiation</b> NTIS/PS-75/075/2GSB	<b>Gas dynamic lasers</b> NTIS/PS-75/573/6GSB
<b>Forecasting, Air transportation</b> NTIS/PS-76/0045/5GSB	<b>Frequency standards</b> NTIS/PS-75/765/8GSB	<b>Gas dynamics, Flow reattachment</b> NTIS/PS-75/823/5GSB
<b>Forecasting, Surface transportation</b> NTIS/PS-76/0046/3GSB	<b>Frequency synthesizers</b> NTIS/PS-75/790/6GSB	<b>Gas flow, Boundary layer transition</b> NTIS/PS-75/816/9GSB NTIS/PS-75/817/7GSB NTIS/PS-75/818/5GSB
<b>Forecasts, Computers</b> NTIS/PS-75/657/7GSB	<b>Fresh water, Biological productivity</b> NTIS/PS-76/0056/2GSB	<b>Gas flow, Shear properties</b> NTIS/PS-75/820/1GSB NTIS/PS-75/821/9GSB
<b>Foreign policy, Arms control</b> NTIS/PS-75/393/9GSB	<b>Frost heave, Permafrost</b> NTIS/PS-76/0069/5GSB	<b>Gas lasers, Carbon dioxide lasers</b> NTIS/PS-75/473/9GSB NTIS/PS-75/474/7GSB
<b>Foreign policy, Detente</b> NTIS/PS-76/0178/4GSB	<b>Fuel additives, Automotive fuels</b> NTIS/PS-75/313/7GSB	<b>Gas turbine blades, Corrosion</b> NTIS/PS-76/0081/0GSB NTIS/PS-76/0082/8GSB
<b>Forensic medicine</b> NTIS/PS-75/245/1GSB	<b>Fuel cell electrodes, Surface chemistry</b> NTIS/PS-75/644/5GSB	<b>Gas turbine blades, Erosion</b> NTIS/PS-76/0081/0GSB NTIS/PS-76/0082/8GSB
<b>Forensic science, Medicine</b> NTIS/PS-75/245/1GSB	<b>Fuel cells</b> NTIS/PS-75/478/8GSB NTIS/PS-75/479/6GSB	<b>Gas turbine engines, Motor vehicles</b> NTIS/PS-75/312/9GSB
<b>Forest industry, Economic development</b> NTIS/PS-75/827/6GSB	<b>Fuel consumption, Energy conservation</b> NTIS/PS-75/214/7GSB	<b>Gas turbines, Corrosion</b> NTIS/PS-76/0087/7GSB NTIS/PS-76/0088/5GSB
<b>Forest land, Watersheds</b> NTIS/PS-75/856/5GSB	<b>Fuel consumption, Industries</b> NTIS/PS-75/343/4GSB	<b>Gas turbines, Erosion</b> NTIS/PS-76/0087/7GSB NTIS/PS-76/0088/5GSB
<b>Forest management</b> NTIS/PS-75/483/8GSB	<b>Fuel consumption, Residential buildings</b> NTIS/PS-75/343/4GSB	<b>Gas wells, Offshore drilling</b> NTIS/PS-75/540/5GSB
<b>Fossil fuels, Shale oil</b> NTIS/PS-75/362/4GSB	<b>Fuel consumption, Transportation</b> NTIS/PS-75/342/6GSB	<b>Gaskets</b> NTIS/PS-75/838/3GSB
<b>Fouling, Marine engineering</b> NTIS/PS-75/442/4GSB	<b>Fuels, Automotive fuels</b> NTIS/PS-75/313/7GSB	<b>General relativity</b> NTIS/PS-76/0135/4GSB
<b>Foundation engineering, Ocean</b> NTIS/PS-75/255/0GSB	<b>Fuels, Hydrogen</b> NTIS/PS-75/379/8GSB	<b>Genetics, Radiobiology</b> NTIS/PS-75/551/2GSB
<b>Foundations, Foundation engineering</b> NTIS/PS-75/282/4GSB NTIS/PS-75/283/2GSB	<b>Fuels, Natural gas</b> NTIS/PS-75/463/0GSB	<b>Genetics, Congenital abnormalities</b> NTIS/PS-75/849/0GSB
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NTIS/PS-75/727/8GSB

**Geothermal energy**  
NTIS/PS-75/377/2GSB

**Ghetos, Sociometrics**  
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**Glass, Waste recycling**  
NTIS/PS-75/453/1GSB

**Glassy carbon**  
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**Global navigation, Very low frequency**  
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**Glues**  
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**Gonorrhea**  
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**Government policies, Energy planning**  
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**Graft versus host disease, immunology**  
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**Graphic arts, Signs and displays**  
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**Graphite, Chemistry**  
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**Graphite fibers**  
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**Graphite, Properties**  
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**GRAS food ingredients**  
NTIS/PS-75/356/6GSB

**Ground effect machines, Ground effect**  
NTIS/PS-75/333/5GSB  
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**Ground effect machines, Oceans**  
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**Ground water, Salinity**  
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**Ground water, Water pollution**  
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**Guerrilla warfare**  
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**Guidance and control, Remote**  
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**Guidance, Inertial systems**  
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**Guided missile computers**  
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**Gulf Stream, Currents**  
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**Halocarbon resins, Heat resistance**  
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**Halohydrocarbons, Toxicity**  
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**Handicapped persons, Blindness**  
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**Handicapped, Transportation**  
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**Handwriting, Character recognition**  
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**Harbor structures, Breakwaters**  
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**Harness, Motor vehicles**  
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**Hazardous materials, Transportation**  
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**Health care costs**  
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**Health maintenance organizations**  
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**Health services, Rural areas**  
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**Hearing, Noise**  
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**Heart diseases**  
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**Heat exchangers, Cryogenics**  
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**Heat pipes**  
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**Heat recovery, Incinerators**  
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**Heat recovery, Waste heat**  
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**Heat resistant plastics**  
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**Heat resistant plastics, Imides • amides**  
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**Heat transfer, Heat pipes**  
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**Heliostats, Solar energy concentrators**  
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**Hematuria**  
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**Hemophilia**  
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**Hepatitis, Blood**  
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**Herbicides, Chemical warfare agents**  
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**Herbicides, Toxicity**  
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**Hereditary diseases, Congenital abnormal**  
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**Herpes simplex virus**  
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**Herpes virus**  
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**High energy rate forming**  
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**High energy rate forming, Explosive**  
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**High protein supplements, Synthesis**  
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**High temperature, Bearings**  
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**Highway bridges, Cement**  
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**Highway transportation, Noise pollution**  
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<b>Highways, Erosion control</b> NTIS/PS-75/469/7GSB	<b>Human factors engineering, Night vision</b> NTIS/PS-76/0133/9GSB	<b>Ice breaking, Ice breakup</b> NTIS/PS-75/872/2GSB
<b>Highways, Flexible pavements</b> NTIS/PS-75/672/6GSB NTIS/PS-75/673/4GSB NTIS/PS-75/674/2GSB	<b>Humans, Information processing</b> NTIS/PS-75/857/3GSB NTIS/PS-75/858/1GSB	<b>Ice, Detection</b> NTIS/PS-76/0096/8GSB
<b>Highways, Markings</b> NTIS/PS-75/122/2GSB	<b>Hurricanes, Weather forecasting</b> NTIS/PS-76/0027/3GSB	<b>Ice fog</b> NTIS/PS-75/770/8GSB
<b>Highways, Public opinion</b> NTIS/PS-76/0153/7GSB	<b>Hurricanes, Weather modification</b> NTIS/PS-76/0027/3GSB	<b>Ice forecasting, Ice fog</b> NTIS/PS-75/770/8GSB
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<b>Highways, Snow and ice removal</b> NTIS/PS-75/829/2GSB	<b>Hydrodynamics, Flow reattachment</b> NTIS/PS-75/823/5GSB	<b>Icebreaking</b> NTIS/PS-75/872/2GSB
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<b>History, National Park Service</b> NTIS/PS-76/0061/2GSB	<b>Hydrodynamics, Propellers(Marine)</b> NTIS/PS-75/767/4GSB	<b>Image Intensifiers, Night vision devices</b> NTIS/PS-75/647/8GSB
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<b>Information systems, Biomedical</b> NTIS/PS-75/891/2GSB	<b>Integrated circuits, Reliability</b> NTIS/PS-75/247/7GSB	<b>Isocyanate plastics, Expanded plastics</b> NTIS/PS-75/634/6GSB
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<b>Journal bearings</b> NTIS/PS-75/801/1GSB	<b>Laser materials, Radiation damage</b> NTIS/PS-75/399/6GSB	<b>Law enforcement, Transportation</b> NTIS/PS-75/732/8GSB
<b>Juvenile delinquency</b> NTIS/PS-75/626/2GSB	<b>Laser produced plasmas</b> NTIS/PS-75/783/1GSB	<b>Law, Ocean law</b> NTIS/PS-75/712/0GSB
<b>Juvenile delinquency, Rehabilitation</b> NTIS/PS-75/711/2GSB	<b>Laser radiobiology</b> NTIS/PS-75/893/8GSB	<b>Law of the sea, Fisheries</b> NTIS/PS-75/111/5GSB
<b>Juvenile, Opinions</b> NTIS/PS-75/232/9GSB	<b>Laser range finders</b> NTIS/PS-75/812/8GSB	<b>Law(Jurisprudence), Fisheries</b> NTIS/PS-75/111/5GSB
<b>Labor, Attitudes</b> NTIS/PS-75/300/4GSB	<b>Laser spectroscopy</b> NTIS/PS-76/0100/8GSB NTIS/PS-76/0101/6GSB	<b>Law(Jurisprudence), Water quality</b> NTIS/PS-75/558/7GSB NTIS/PS-75/559/5GSB
<b>Labor, Productivity</b> NTIS/PS-75/492/9GSB	<b>Laser spectroscopy, Raman spectroscopy</b> NTIS/PS-76/0099/2GSB	<b>Lead acid batteries</b> NTIS/PS-75/472/1GSB
<b>Labor relations</b> NTIS/PS-75/290/7GSB	<b>Lasers, Carbon dioxide lasers</b> NTIS/PS-75/473/9GSB NTIS/PS-75/474/7GSB	<b>Lead poisoning</b> NTIS/PS-76/0097/6GSB
<b>Labor unions, Collective bargaining</b> NTIS/PS-76/0124/8GSB	<b>Lasers, Carbon monoxide lasers</b> NTIS/PS-75/658/5GSB	<b>Lead, Storage batteries</b> NTIS/PS-75/472/1GSB
<b>Labor unions, Labor relations</b> NTIS/PS-75/290/7GSB	<b>Lasers, Deuterium fluoride lasers</b> NTIS/PS-75/733/6GSB	<b>Lead(Metal), Pollution</b> NTIS/PS-76/0073/7GSB
<b>Lagoons(Ponds), Aeration</b> NTIS/PS-75/357/4GSB	<b>Lasers, Dye lasers</b> NTIS/PS-75/539/7GSB	<b>Lead(Metal), Pollution effects</b> NTIS/PS-76/0097/6GSB
<b>Lakes, Sedimentation</b> NTIS/PS-75/886/2GSB	<b>Lasers, Gallium arsenide lasers</b> NTIS/PS-75/792/2GSB	<b>Learning, Adult education</b> NTIS/PS-75/358/2GSB
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<b>Land disposal, Liquid wastes</b> NTIS/PS-75/460/6GSB	<b>Lasers, Hydrogen fluoride lasers</b> NTIS/PS-75/733/6GSB	<b>Leukemia</b> NTIS/PS-75/339/2GSB
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<b>Land reclamation, Strip mining</b> NTIS/PS-75/751/8GSB	<b>Lasers, Metal vapor lasers</b> NTIS/PS-75/625/4GSB	<b>Libraries, Management</b> NTIS/PS-75/873/0GSB
<b>Land use, Flood control</b> NTIS/PS-75/552/0GSB	<b>Lasers, Optical communication</b> NTIS/PS-75/412/7GSB	<b>Libraries, microforms</b> NTIS/PS-75/434/1GSB NTIS/PS-75/435/8GSB
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**Magnetohydrodynamics, Nuclear fusion**  
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<b>Motor vehicle operators, Training</b> NTIS/PS-76/0113/1GSB	<b>Negroes, Ghettos</b> NTIS/PS-75/721/1GSB	<b>Noise pollution, Stress(Physiology)</b> NTIS/PS-76/0013/3GSB NTIS/PS-76/0014/1GSB
<b>Motor vehicles, Air pollution abatement</b> NTIS/PS-75/309/5GSB	<b>Negroes, Interactions</b> NTIS/PS-75/842/5GSB NTIS/PS-75/843/3GSB	<b>Noise pollution, Stress(Psychology)</b> NTIS/PS-76/0013/3GSB NTIS/PS-76/0014/1GSB
<b>Motor vehicles, Air pollution control</b> NTIS/PS-75/311/1GSB	<b>Neoplasms, Chemicals</b> NTIS/PS-75/844/1GSB	<b>Noise pollution, Urban areas</b> NTIS/PS-75/544/7GSB
<b>Motor vehicles, Bumpers</b> NTIS/PS-75/736/9GSB	<b>Neoplasms, Drugs</b> NTIS/PS-75/509/0GSB	<b>Noise reduction, Aircraft noise</b> NTIS/PS-75/762/5GSB
<b>Motor vehicles, Fuel consumption</b> NTIS/PS-75/342/6GSB	<b>Neoplasms, Immunology</b> NTIS/PS-75/222/0GSB	<b>Nondestructive testing, Pavements</b> NTIS/PS-76/0062/0GSB
<b>Motor vehicles, Pedestrian safety</b> NTIS/PS-75/660/1GSB	<b>Neoplasms, Lung</b> NTIS/PS-75/841/7GSB	<b>Nondestructive tests, Acoustic holography</b> NTIS/PS-75/432/5GSB
<b>Motor vehicles, Tires</b> NTIS/PS-75/533/0GSB	<b>Neoplasms, Viruses</b> NTIS/PS-76/0172/7GSB	<b>Nondestructive tests, Holography</b> NTIS/PS-75/431/7GSB
<b>Motor vehicles, Traffic control</b> NTIS/PS-75/403/6GSB	<b>Nervous system disorders</b> NTIS/PS-75/889/6GSB	<b>Nondestructive tests, Ultrasonic tests</b> NTIS/PS-75/270/9GSB NTIS/PS-75/271/7GSB
<b>Municipalities, Urban information</b> NTIS/PS-75/623/9GSB NTIS/PS-75/624/7GSB	<b>Nervous system, Regeneration(Physiology)</b> NTIS/PS-75/592/6GSB	<b>Nondestructive tests, X rays</b> NTIS/PS-75/666/8GSB
<b>Mutagens, Neoplasms</b> NTIS/PS-75/844/1GSB	<b>Network flows, Water resources</b> NTIS/PS-75/694/0GSB	<b>Nonlinear acoustics</b> NTIS/PS-75/351/7GSB
<b>Myocardial Infarction</b> NTIS/PS-76/0117/2GSB NTIS/PS-76/0118/0GSB	<b>Neutron activation, Concretes</b> NTIS/PS-76/0062/0GSB	<b>Nonlinear differential equations</b> NTIS/PS-75/794/8GSB
<b>Narcotics detection, Dogs</b> NTIS/PS-75/648/6GSB	<b>Nickel alloys, Superalloys</b> NTIS/PS-76/0107/3GSB NTIS/PS-76/0108/1GSB NTIS/PS-76/0109/9GSB	<b>Non-newtonian fluids</b> NTIS/PS-75/497/8GSB
<b>Narcotics, Drug abuse</b> NTIS/PS-75/147/9GSB	<b>Nickel cadmium batteries</b> NTIS/PS-75/445/7GSB	<b>Nuclear explosions, Seismic detection</b> NTIS/PS-75/327/7GSB NTIS/PS-75/328/5GSB
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<b>National Government, Income taxes</b> NTIS/PS-75/867/2GSB	<b>Night vision devices</b> NTIS/PS-75/647/8GSB	<b>Nuclear fusion, Electron beams</b> NTIS/PS-75/784/9GSB
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<b>Natural gas, Marine transportation</b> NTIS/PS-75/464/8GSB	<b>Nitrogen oxides, Air pollution effects</b> NTIS/PS-75/610/6GSB	<b>Nuclear medicine</b> NTIS/PS-75/213/9GSB
<b>Natural gas, Supply and demand</b> NTIS/PS-75/463/0GSB	<b>Nitrogen oxides, Atmospheric chemistry</b> NTIS/PS-75/609/8GSB	<b>Nuclear power plants, Accidents</b> NTIS/PS-75/659/3GSB
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<b>Naval training, Flight simulation</b> NTIS/PS-76/0068/7GSB	<b>Nitrogen, Sewage treatment</b> NTIS/PS-75/586/8GSB	<b>Nuclear power plants, Offshore</b> NTIS/PS-75/684/1GSB
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**Numerical control systems, Machine tools**  
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**Numerical integration, NDE**  
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**Occupant protection, Automobiles**  
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NTIS/PS-75/564/5GSB

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NTIS/PS-75/255/0GSB

**Ocean bottom spreading, Paleontology**  
NTIS/PS-76/0091/9GSB  
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**Ocean currents, Remote sensing**  
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**Ocean law**  
NTIS/PS-75/712/0GSB

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NTIS/PS-75/446/5GSB

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**Ocean waves, Measurement**  
NTIS/PS-75/413/5GSB

**Ocean waves, Remote sensing**  
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**Ocean waves, Sensors**  
NTIS/PS-75/413/5GSB

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**Oceanology, Gulf Stream**  
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NTIS/PS-76/0033/1GSB

**Oil pollution, Oil water separators**  
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**Oil spills, Ecology**  
NTIS/PS-76/0033/1GSB

**Oil spills, Oil pollution removal**  
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NTIS/PS-75/892/0GSB

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**Optical communication**  
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**Optical communication, Attenuation**  
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**Out patients**  
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**Packaging, Food packaging**  
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**Paleomagnetism**  
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<b>Particle boards</b> NTIS/PS-76/0157/8GSB NTIS/PS-76/0158/6GSB	<b>Personnel management, Job satisfaction</b> NTIS/PS-75/708/8GSB	<b>Phytoplankton, Biological productivity</b> NTIS/PS-76/0056/2GSB
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<b>Particles, Electrostatic precipitation</b> NTIS/PS-75/587/6GSB	<b>Personnel, Mathematical models</b> NTIS/PS-75/498/6GSB NTIS/PS-75/499/4GSB	<b>Pilots, Stress(Psychology)</b> NTIS/PS-75/890/4GSB
<b>Passenger vehicles, Impact tests</b> NTIS/PS-75/651/0GSB	<b>Personnel, Productivity</b> NTIS/PS-75/492/9GSB	<b>Pine wood</b> NTIS/PS-75/798/9GSB
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		<b>Propellers(Marine), Fluid mechanics</b> NTIS/PS-75/767/4GSB



<b>Property taxes, Housing</b> NTIS/PS-75/203/0GSB	<b>Pulse communications, Troposcatter</b> NTIS/PS-75/459/8GSB	<b>Radio navigation, Very low frequency</b> NTIS/PS-75/151/1GSB
<b>Property taxes, Urban planning</b> NTIS/PS-75/199/0GSB	<b>Pupils, Teacher interactions</b> NTIS/PS-76/0105/7GSB	<b>Radio waves, Environmental effects</b> NTIS/PS-76/0003/4GSB
<b>Prophylaxis, Preventive medicine</b> NTIS/PS-75/502/5GSB	<b>Pyrolysis incineration</b> NTIS/PS-75/350/9GSB	<b>Radioactive contaminants, Air tracers</b> NTIS/PS-76/0144/6GSB
<b>Prostaglandins</b> NTIS/PS-75/176/8GSB	<b>Pyrolytic carbon</b> NTIS/PS-75/182/6GSB	<b>Radioactive isotopes, Diagnosis(Medicine)</b> NTIS/PS-75/213/9GSB
<b>Prostheses, Dentistry</b> NTIS/PS-75/511/6GSB	<b>Pyrolytic graphite, Chemistry</b> NTIS/PS-75/616/3GSB	<b>Radioactive isotopes, Precipitation wash</b> NTIS/PS-75/517/3GSB
<b>Prosthesis, Artificial limbs</b> NTIS/PS-75/438/2GSB	<b>Pyrolytic properties, Graphite</b> NTIS/PS-75/615/5GSB	<b>Radioactivity, Nuclear power plants</b> NTIS/PS-75/429/1GSB
<b>Prosthesis, Biomaterials</b> NTIS/PS-75/487/9GSB NTIS/PS-75/488/7GSB	<b>Quality of life, Urban areas</b> NTIS/PS-75/570/2GSB	<b>Radiobiology, Extremely low frequency</b> NTIS/PS-76/0003/4GSB
<b>Protective equipment, Mining</b> NTIS/PS-75/564/5GSB	<b>Quantum electrodynamics</b> NTIS/PS-76/0132/1GSB	<b>Radiobiology, Laser radiobiology</b> NTIS/PS-75/893/8GSB
<b>Proteins, Synthetic foods</b> NTIS/PS-75/493/7GSB	<b>Quantum theory, Electrodynamics</b> NTIS/PS-76/0132/1GSB	<b>Radiobiology, Microwaves</b> NTIS/PS-75/384/8GSB
<b>Pseudorandom generators, Shift registers</b> NTIS/PS-75/879/7GSB	<b>Quasars</b> NTIS/PS-76/0134/7GSB	<b>Radiofrequency filters, Band pass filters</b> NTIS/PS-76/0145/3GSB NTIS/PS-76/0146/1GSB
<b>Psycholinguistics</b> NTIS/PS-75/747/6GSB	<b>Question answering, Natural language</b> NTIS/PS-75/864/9GSB	<b>Radiofrequency, Frequency allocations</b> NTIS/PS-76/0054/7GSB
<b>Psychological tests, Intelligence</b> NTIS/PS-76/0076/0GSB	<b>Radar jamming</b> NTIS/PS-75/165/1GSB	<b>Radiography</b> NTIS/PS-75/173/5GSB
<b>Psychology, Alcoholism</b> NTIS/PS-75/506/6GSB	<b>Radiation damage, Laser materials</b> NTIS/PS-75/399/6GSB	<b>Radiography, X rays</b> NTIS/PS-75/666/8GSB
<b>Psychology, Industrial psychology</b> NTIS/PS-75/839/1GSB	<b>Radiation effects, Cells(Biology)</b> NTIS/PS-75/551/2GSB	<b>Radioimmunoassay</b> NTIS/PS-76/0125/5GSB
<b>Psychoneuropharmacology</b> NTIS/PS-75/489/5GSB	<b>Radiation effects, Chromosomes</b> NTIS/PS-75/551/2GSB	<b>Radiology</b> NTIS/PS-75/173/5GSB
<b>Psychoses</b> NTIS/PS-75/235/2GSB	<b>Radiation effects, Ion implantation</b> NTIS/PS-75/661/9GSB	<b>Radiopharmaceuticals</b> NTIS/PS-75/213/9GSB
<b>Psychotic depression</b> NTIS/PS-75/235/2GSB	<b>Radiation effects, Lasers</b> NTIS/PS-75/893/8GSB	<b>Radiotherapy</b> NTIS/PS-75/173/5GSB
<b>Psychotropic agents, Pharmacology</b> NTIS/PS-75/489/5GSB	<b>Radiation effects, Microwaves</b> NTIS/PS-75/384/8GSB	<b>Radiotherapy, Radioactive isotopes</b> NTIS/PS-75/213/9GSB
<b>Public health, Nuclear power plants</b> NTIS/PS-75/429/1GSB	<b>Radiation hazards, Carcinogens</b> NTIS/PS-75/844/1GSB	<b>Radomes</b> NTIS/PS-75/847/4GSB
<b>Public health, Preventive medicine</b> NTIS/PS-75/502/5GSB	<b>Radiation hazards, Mining</b> NTIS/PS-75/565/2GSB	<b>Rail transportation</b> NTIS/PS-76/0170/1GSB NTIS/PS-76/0171/9GSB
<b>Public opinion, Highways</b> NTIS/PS-76/0153/7GSB	<b>Radiation hazards, Nuclear accidents</b> NTIS/PS-75/659/3GSB	<b>Rail transportation, Demands needs</b> NTIS/PS-76/0046/3GSB
<b>Public opinion, Water resources</b> NTIS/PS-75/373/1GSB	<b>Radio communication, Mobile equipment</b> NTIS/PS-75/546/2GSB	<b>Rail transportation, Freight</b> NTIS/PS-76/0169/3GSB
<b>Publicity, Urban management</b> NTIS/PS-75/653/6GSB	<b>Radio communication, Single sideband</b> NTIS/PS-75/449/9GSB	<b>Railroads, Cargo transportation</b> NTIS/PS-76/0169/3GSB
<b>Publishing industry, Surveys</b> NTIS/PS-76/0005/9GSB	<b>Radio communications, Medicine</b> NTIS/PS-75/580/1GSB	<b>Railroads, Transportation management</b> NTIS/PS-76/0170/1GSB NTIS/PS-76/0171/9GSB
<b>Publishing, Libraries Surveys</b> NTIS/PS-76/0005/9GSB	<b>Radio communications, Troposcatter</b> NTIS/PS-75/459/8GSB	<b>Raman spectroscopy, Laser spectroscopy</b> NTIS/PS-76/0099/2GSB
<b>Pulp mills, Water pollution</b> NTIS/PS-75/638/7GSB	<b>Radio equipment, Portable equipment</b> NTIS/PS-75/547/0GSB	
<b>Pulsars</b> NTIS/PS-76/0134/7GSB	<b>Radio jamming</b> NTIS/PS-75/165/1GSB	



<b>Random access memories</b> NTIS/PS-75/811/0GSB	<b>Regional planning, Housing</b> NTIS/PS-75/654/4GSB	<b>Remote sensing, Ocean currents and waves</b> NTIS/PS-75/447/3GSB
<b>Range finders</b> NTIS/PS-75/812/8GSB	<b>Regional planning, Information systems</b> NTIS/PS-75/623/9GSB NTIS/PS-75/624/7GSB	<b>Remote sensing, Ocean surface</b> NTIS/PS-75/446/5GSB
<b>Rapid transit, BART and Metro</b> NTIS/PS-75/421/8GSB	<b>Regional planning, Mass communication</b> NTIS/PS-75/653/6GSB	<b>Remote sensing, Strip mining</b> NTIS/PS-75/751/8GSB
<b>Rapid transit railways, Magnetic suspension</b> NTIS/PS-76/0094/3GSB	<b>Regional planning, Population</b> NTIS/PS-75/682/5GSB	<b>Remote sensors, ERTS</b> NTIS/PS-76/0055/4GSB
<b>Reaction wheels</b> NTIS/PS-75/743/5GSB	<b>Regional planning, Remote sensing</b> NTIS/PS-75/104/0GSB	<b>Remotely piloted vehicles, Airplanes</b> NTIS/PS-75/876/3GSB
<b>Read only memories</b> NTIS/PS-75/789/8GSB	<b>Regional planning, Solid waste disposal</b> NTIS/PS-75/184/2GSB NTIS/PS-75/185/9GSB NTIS/PS-75/186/7GSB	<b>Replacement theory, Logistics</b> NTIS/PS-75/405/1GSB
<b>Read only storage</b> NTIS/PS-75/789/8GSB	<b>Regional planning, Water resources</b> NTIS/PS-75/374/9GSB	<b>Research planning, Energy</b> NTIS/PS-75/630/4GSB
<b>Recall, Human</b> NTIS/PS-75/297/2GSB	<b>Regulations, Consumer affairs</b> NTIS/PS-75/409/3GSB	<b>Reservoirs, Aeration systems</b> NTIS/PS-75/357/4GSB
<b>Records, Inventory control</b> NTIS/PS-76/0075/2GSB	<b>Rehabilitation, Alcoholism</b> NTIS/PS-75/506/6GSB	<b>Reservoirs, Sedimentation</b> NTIS/PS-75/886/2GSB
<b>Records management</b> NTIS/PS-76/0075/2GSB	<b>Rehabilitation, Criminals</b> NTIS/PS-75/711/2GSB	<b>Residential buildings, Prefabrication</b> NTIS/PS-75/571/0GSB
<b>Recreation, Fishing</b> NTIS/PS-75/468/9GSB	<b>Rehabilitation, Family relations</b> NTIS/PS-75/720/3GSB	<b>Respiratory diseases, Chronic diseases</b> NTIS/PS-75/273/3GSB
<b>Recreation, Tourism</b> NTIS/PS-75/148/7GSB	<b>Rehabilitation, Juvenile delinquency</b> NTIS/PS-75/626/2GSB NTIS/PS-75/711/2GSB	<b>Respiratory diseases, Cigarette smoking</b> NTIS/PS-76/0074/5GSB
<b>Recreational boating</b> NTIS/PS-76/0060/4GSB	<b>Rehabilitation, Mental deficiency</b> NTIS/PS-76/0067/9GSB	<b>Respiratory system, Cancer</b> NTIS/PS-75/841/7GSB
<b>Recreational facilities, Land use</b> NTIS/PS-76/0138/8GSB	<b>Rehabilitation, Physical defects</b> NTIS/PS-76/0028/1GSB	<b>Retarded, Rehabilitation</b> NTIS/PS-76/0067/9GSB
<b>Recruiting, Military personnel</b> NTIS/PS-75/621/3GSB	<b>Reinforced plastics</b> NTIS/PS-76/0064/6GSB	<b>Retina, Electrophysiology</b> NTIS/PS-75/526/4GSB
<b>Recursive functions, Automata theory</b> NTIS/PS-75/707/0GSB	<b>Reinforced plastics, Carbon • graphite fiber</b> NTIS/PS-75/612/2GSB NTIS/PS-75/613/0GSB	<b>Retirement, Older workers</b> NTIS/PS-75/548/8GSB
<b>Recycling, Glass</b> NTIS/PS-75/453/1GSB	<b>Reinforced plastics, Fiberglass</b> NTIS/PS-76/0063/8GSB	<b>Revenue, Government policies</b> NTIS/PS-75/840/9GSB
<b>Recycling, Metals</b> NTIS/PS-75/452/3GSB	<b>Relativity theory</b> NTIS/PS-76/0135/4GSB	<b>Revenue sharing, Federal government</b> NTIS/PS-75/840/9GSB
<b>Recycling, Packaging materials</b> NTIS/PS-75/450/7GSB	<b>Reliability, Integrated circuits</b> NTIS/PS-75/247/7GSB	<b>Reverse osmosis, Waste treatment</b> NTIS/PS-75/574/4GSB
<b>Recycling, Paper</b> NTIS/PS-75/454/9GSB	<b>Remote sensing, Archaeology</b> NTIS/PS-75/859/9GSB	<b>Riot control</b> NTIS/PS-75/730/2GSB
<b>Recycling, Plastics</b> NTIS/PS-75/451/5GSB	<b>Remote sensing, Disasters</b> NTIS/PS-75/683/3GSB	<b>Riot control agents, Civil disorders</b> NTIS/PS-75/730/2GSB
<b>Reentry, Mohole project</b> NTIS/PS-75/726/0GSB	<b>Remote sensing, Gulf Stream</b> NTIS/PS-75/525/6GSB	<b>Riots</b> NTIS/PS-75/730/2GSB
<b>Refrigerators, Cryogenics</b> NTIS/PS-75/825/0GSB NTIS/PS-75/826/8GSB	<b>Remote sensing, Land use</b> NTIS/PS-75/668/4GSB	<b>Risk analysis, Insurance</b> NTIS/PS-75/604/9GSB
<b>Regeneration(Physiology), Nervous system</b> NTIS/PS-75/592/6GSB	<b>Remote sensing, Management planning</b> NTIS/PS-75/104/0GSB	<b>Risk, Nuclear facilities</b> NTIS/PS-75/659/3GSB
<b>Regional planning, Bus transportation</b> NTIS/PS-75/705/4GSB NTIS/PS-75/706/2GSB		<b>Rivers, Lead pollution</b> NTIS/PS-76/0073/7GSB
<b>Regional planning, Health services</b> NTIS/PS-75/532/2GSB		<b>Rivers, Sediment transport</b> NTIS/PS-75/848/2GSB
		<b>Roads, Asphalt</b> NTIS/PS-75/672/6GSB



NTIS/PS-75/673/4GSB NTIS/PS-75/674/2GSB	<b>Schistosomiasis</b> NTIS/PS-75/344/2GSB	<b>Semiconductor devices, Charge transfer</b> NTIS/PS-75/275/8GSB
<b>Roads, Beautification</b> NTIS/PS-76/0009/1GSB	<b>Schizophrenia</b> NTIS/PS-75/235/2GSB	<b>Semiconductor devices, Electron transfer</b> NTIS/PS-75/275/8GSB
<b>Roads, Concrete</b> NTIS/PS-75/677/5GSB NTIS/PS-75/678/3GSB NTIS/PS-75/679/1GSB	<b>Schlieren photography</b> NTIS/PS-75/117/2GSB	<b>Semiconductor devices, Gunn effect</b> NTIS/PS-75/227/9GSB
<b>Roads, Markings</b> NTIS/PS-75/122/2GSB	<b>Schottky barrier devices</b> NTIS/PS-76/0065/3GSB NTIS/PS-76/0066/1GSB	<b>Semiconductor devices, Schottky defects</b> NTIS/PS-76/0066/1GSB
<b>Robots, Artificial Intelligence</b> NTIS/PS-75/731/0GSB	<b>Scrubbers, Air pollution control</b> NTIS/PS-75/163/6GSB NTIS/PS-76/0050/5GSB NTIS/PS-76/0051/3GSB NTIS/PS-76/0052/1GSB	<b>Semiconductor diodes, Electroluminescence</b> NTIS/PS-75/415/0GSB
<b>Rock properties, Tunneling(Excavation)</b> NTIS/PS-75/550/4GSB	<b>Scuba, Underwater equipment</b> NTIS/PS-75/774/0GSB	<b>Semiconductor diodes, Lasers</b> NTIS/PS-75/415/0GSB
<b>Roentgenography</b> NTIS/PS-75/173/5GSB	<b>Sea ice, Remote sensing</b> NTIS/PS-75/446/5GSB	<b>Semiconductor diodes, Schottky defects</b> NTIS/PS-76/0065/3GSB
<b>Roller bearings</b> NTIS/PS-75/803/7GSB	<b>Sea states, Remote sensing</b> NTIS/PS-75/447/3GSB	<b>Semiconductor doping, Ion Implantation</b> NTIS/PS-75/661/9GSB
<b>ROM, Memory devices</b> NTIS/PS-75/789/8GSB	<b>Sea walls</b> NTIS/PS-75/553/8GSB	<b>Semiconductors, Amorphous semiconductors</b> NTIS/PS-75/368/1GSB
<b>Routing, Network flows</b> NTIS/PS-75/694/0GSB	<b>Sea water corrosion</b> NTIS/PS-76/0058/8GSB	<b>Semiconductors, Electron tube targets</b> NTIS/PS-76/0122/2GSB NTIS/PS-76/0123/0GSB
<b>Runways, Pavements</b> NTIS/PS-75/518/1GSB NTIS/PS-75/519/9GSB NTIS/PS-75/520/7GSB	<b>Sea water corrosion, Desalting plants</b> NTIS/PS-76/0173/5GSB NTIS/PS-76/0174/3GSB	<b>Semiconductors, Ion Implantation</b> NTIS/PS-75/661/9GSB
<b>Runways, Snow and Ice removal</b> NTIS/PS-75/829/2GSB	<b>Seals(Stoppers)</b> NTIS/PS-75/838/3GSB	<b>Sensors, Ocean waves</b> NTIS/PS-75/413/5GSB
<b>Rural areas, Health services</b> NTIS/PS-75/532/2GSB	<b>Seat belts, Automobiles</b> NTIS/PS-75/735/1GSB	<b>Septic tanks</b> NTIS/PS-75/388/9GSB
<b>Rural areas, Medical services</b> NTIS/PS-75/532/2GSB	<b>Seawater, Salt removal</b> NTIS/PS-76/0085/1GSB NTIS/PS-76/0086/9GSB	<b>Septicemia</b> NTIS/PS-75/349/1GSB
<b>Safety belts, Motor vehicles</b> NTIS/PS-75/735/1GSB	<b>Sediment transport, Rivers</b> NTIS/PS-75/848/2GSB	<b>Serology, Hepatitis</b> NTIS/PS-75/543/9GSB
<b>Safety, Mine safety</b> NTIS/PS-75/566/0GSB	<b>Sedimentation, Reservoirs and lakes</b> NTIS/PS-75/886/2GSB	<b>Serology, Isotopic labeling</b> NTIS/PS-76/0125/5GSB
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<b>Salaries, Industries</b> NTIS/PS-75/567/8GSB NTIS/PS-75/568/6GSB	<b>Seismic arrays, Earthquakes</b> NTIS/PS-75/326/9GSB	<b>Sewage, Marine biology</b> NTIS/PS-75/430/9GSB
<b>Salinity, Ground water</b> NTIS/PS-75/741/9GSB	<b>Seismic detection, Nuclear explosions</b> NTIS/PS-75/327/7GSB NTIS/PS-75/328/5GSB	<b>Sewage, Ocean waste disposal</b> NTIS/PS-75/462/2GSB
<b>Salmon, Aquaculture</b> NTIS/PS-75/306/1GSB	<b>Seismic detection, Seismic waves</b> NTIS/PS-75/326/9GSB	<b>Sewage treatment, Activated carbon</b> NTIS/PS-75/461/4GSB
<b>Salt marshes</b> NTIS/PS-75/426/7GSB	<b>Selective coatings, Solar cells</b> NTIS/PS-75/692/4GSB	<b>Sewage treatment, Activated sludge</b> NTIS/PS-75/589/2GSB
<b>Sanguine Project</b> NTIS/PS-76/0003/4GSB	<b>Semiarid land, Water resources</b> NTIS/PS-75/737/7GSB	<b>Sewage treatment, Aeration ponds</b> NTIS/PS-75/357/4GSB
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<b>Satellite communication, Microwaves</b> NTIS/PS-75/250/1GSB	<b>Semiconductor computer storage</b> NTIS/PS-75/274/1GSB	<b>Sewage treatment, Coagulation - flotation</b> NTIS/PS-75/582/7GSB
<b>Scheduling, Industrial production</b> NTIS/PS-75/863/1GSB	<b>Semiconductor devices, Beam leads</b> NTIS/PS-75/246/9GSB	
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<b>Sewage treatment, Manufactured gas</b> NTIS/PS-75/655/1GSB	<b>Shortages, Materials</b> NTIS/PS-76/0006/7GSB	<b>Snow</b> NTIS/PS-75/719/5GSB
<b>Sewage treatment, Nitrogen</b> NTIS/PS-75/586/8GSB	<b>Shrimps, Aquaculture</b> NTIS/PS-75/305/3GSB	<b>Snow, Foundations</b> NTIS/PS-75/283/2GSB
<b>Sewage treatment, Osmosis</b> NTIS/PS-75/574/4GSB	<b>Sickle cell anemia</b> NTIS/PS-75/515/7GSB	<b>Snow removal</b> NTIS/PS-75/829/2GSB
<b>Sewage treatment, Phosphorus</b> NTIS/PS-75/585/0GSB	<b>Signal generators, Frequency synthesizers</b> NTIS/PS-75/790/6GSB	<b>Soaps, Cleaning agents</b> NTIS/PS-76/0110/7GSB
<b>Sewage treatment, Septic tanks</b> NTIS/PS-75/388/9GSB	<b>Signal processing, Coding</b> NTIS/PS-75/398/8GSB	<b>Social change</b> NTIS/PS-75/266/7GSB
<b>Sewage treatment, Sewage filtration</b> NTIS/PS-75/583/5GSB	<b>Signal processing, Fast Fourier</b> NTIS/PS-75/645/2GSB	<b>Social change, Urbanization</b> NTIS/PS-75/570/2GSB
<b>Sewage treatment, Shipborne</b> NTIS/PS-75/788/0GSB	<b>Signs, Human engineering</b> NTIS/PS-75/791/4GSB	<b>Social indicators</b> NTIS/PS-76/0004/2GSB
<b>Sewage treatment, Sludge disposal</b> NTIS/PS-75/252/7GSB	<b>Silicates, Pollution</b> NTIS/PS-75/746/8GSB	<b>Social welfare, Volunteers</b> NTIS/PS-75/754/2GSB
<b>Sewage treatment, Urban planning</b> NTIS/PS-75/596/7GSB	<b>Silicon, Solar cells</b> NTIS/PS-75/628/8GSB	<b>Socioeconomic status, Planning</b> NTIS/PS-76/0004/2GSB
<b>Sewers, Combined sewers</b> NTIS/PS-75/602/3GSB NTIS/PS-75/603/1GSB	<b>Silicone resins, Chemical reactions</b> NTIS/PS-76/0057/0GSB	<b>Sociology, American Indians</b> NTIS/PS-75/703/9GSB
<b>Shadowgraph photography</b> NTIS/PS-75/117/2GSB	<b>Silicone resins, Heat resistant plastics</b> NTIS/PS-75/561/1GSB	<b>Sociology, Water resources</b> NTIS/PS-75/373/1GSB
<b>Shale oil</b> NTIS/PS-75/362/4GSB	<b>Silicosis</b> NTIS/PS-75/746/8GSB	<b>Sociometrics, Ghettos</b> NTIS/PS-75/721/1GSB
<b>Sharks, biology, behavior, repellents</b> NTIS/PS-75/869/8GSB	<b>Silver, Primary batteries</b> NTIS/PS-75/649/4GSB	<b>Sociopsychological surveys, Negroes</b> NTIS/PS-75/842/5GSB NTIS/PS-75/843/3GSB
<b>Shear flow, Fluid mechanics</b> NTIS/PS-75/822/7GSB	<b>Silver, Storage batteries</b> NTIS/PS-75/649/4GSB	<b>Soil cement</b> NTIS/PS-75/470/5GSB
<b>Shear flow, Gases</b> NTIS/PS-75/820/1GSB NTIS/PS-75/821/9GSB	<b>Simulation, Teaching methods</b> NTIS/PS-75/335/0GSB	<b>Soil, Consolidation</b> NTIS/PS-75/365/7GSB
<b>Shear flow, Liquids</b> NTIS/PS-75/819/3GSB	<b>Simulators, Education</b> NTIS/PS-75/335/0GSB	<b>Soil erosion, Control</b> NTIS/PS-75/469/7GSB
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<b>Shear stresses, Gas dynamics</b> NTIS/PS-75/820/1GSB NTIS/PS-75/821/9GSB	<b>Site selection, Power plants</b> NTIS/PS-75/748/4GSB	<b>Soils, Compaction</b> NTIS/PS-75/365/7GSB
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<b>Ship hulls, Ground effect</b> NTIS/PS-75/332/7GSB	<b>Sludge disposal, Sewage treatment</b> NTIS/PS-75/252/7GSB	<b>Solar cells, Silicon</b> NTIS/PS-75/628/8GSB
<b>Ships, Sewage treatment</b> NTIS/PS-75/788/0GSB	<b>Small businesses, Minority groups</b> NTIS/PS-75/845/8GSB	<b>Solar collectors</b> NTIS/PS-75/690/8GSB
<b>Shock(pathology), Hemorrhagic shock</b> NTIS/PS-75/369/9GSB	<b>Smog, Nitrogen oxide chemistry</b> NTIS/PS-75/609/8GSB	<b>Solar collectors, Optical coatings</b> NTIS/PS-75/692/4GSB
	<b>Smoke screens, Camouflage</b> NTIS/PS-76/0079/4GSB	<b>Solar eclipses</b> NTIS/PS-76/0131/3GSB
	<b>Smoking</b> NTIS/PS-76/0074/5GSB	



**Solar energy absorbers, Solar energy conc**  
NTIS/PS-75/690/8GSB

**Solar energy concentrators**  
NTIS/PS-75/690/8GSB

**Solar power generation, Solar generators**  
NTIS/PS-75/691/6GSB

**Solar power, Offshore**  
NTIS/PS-75/684/1GSB

**Solar sea power plants**  
NTIS/PS-75/691/6GSB

**Solar space heating**  
NTIS/PS-75/689/0GSB

**Solid lubricants**  
NTIS/PS-75/715/3GSB

**Solid waste disposal, Chemical Industry**  
NTIS/PS-75/541/3GSB

**Solid waste disposal, Coal mines**  
NTIS/PS-75/112/3GSB  
NTIS/PS-76/0053/9GSB

**Solid waste disposal, Dredge spoil**  
NTIS/PS-75/755/9GSB

**Solid waste disposal, Earth fills**  
NTIS/PS-75/676/7GSB

**Solid waste disposal, Economics**  
NTIS/PS-75/536/3GSB

**Solid waste disposal, Fly ash**  
NTIS/PS-75/646/0GSB

**Solid waste disposal, Food processing**  
NTIS/PS-75/484/6GSB

**Solid waste disposal, Glass recycling**  
NTIS/PS-75/453/1GSB

**Solid waste disposal, Hazardous materials**  
NTIS/PS-75/285/7GSB  
NTIS/PS-75/286/5GSB

**Solid waste disposal, Incinerators**  
NTIS/PS-75/350/9GSB

**Solid waste disposal, Local studies**  
NTIS/PS-75/185/9GSB

**Solid waste disposal, Management**  
NTIS/PS-75/184/2GSB

**Solid waste disposal, Metal recycling**  
NTIS/PS-75/452/3GSB

**Solid waste disposal, Ocean waste disposa**  
NTIS/PS-75/462/2GSB

**Solid waste disposal, Packaging materials**  
NTIS/PS-75/450/7GSB

**Solid waste disposal, Paper**  
NTIS/PS-75/454/9GSB

**Solid waste disposal, Plastic recycling**  
NTIS/PS-75/451/5GSB

**Solid waste disposal, Synthetic foods**  
NTIS/PS-75/493/7GSB

**Solid waste disposal, Textile Industry**  
NTIS/PS-75/729/4GSB

**Solid waste disposal, Urban planning**  
NTIS/PS-75/184/2GSB  
NTIS/PS-75/185/9GSB  
NTIS/PS-75/186/7GSB

**Solid waste disposal, Urban technology**  
NTIS/PS-75/186/7GSB

**Solid wastes, Synthetic fuels**  
NTIS/PS-75/655/1GSB

**Solvent refined coal**  
NTIS/PS-75/385/5GSB  
NTIS/PS-75/386/3GSB

**Sonar equipment, Nonlinear systems**  
NTIS/PS-75/351/7GSB

**Sonic boom, Aircraft**  
NTIS/PS-76/0175/0GSB

**Sonic boom, Damage**  
NTIS/PS-76/0176/8GSB

**Sonic boom, Stress(Physiology)**  
NTIS/PS-76/0177/6GSB

**Sound transmission, Nonlinear systems**  
NTIS/PS-75/351/7GSB

**Space heating, Solar space heating**  
NTIS/PS-75/689/0GSB

**Spaceborne photography, Agriculture**  
NTIS/PS-75/668/4GSB

**Special relativity**  
NTIS/PS-76/0135/4GSB

**Spectrochemical analysis, Steels**  
NTIS/PS-75/289/9GSB

**Spectroscopic analysis, X ray emission**  
NTIS/PS-75/584/3GSB

**Spectroscopy, Laser Raman spectroscopy**  
NTIS/PS-76/0099/2GSB

**Spectroscopy, Laser spectroscopy**  
NTIS/PS-76/0100/8GSB  
NTIS/PS-76/0101/6GSB

**Speech, Intelligibility**  
NTIS/PS-75/669/2GSB

**Speech recognition, Computers**  
NTIS/PS-75/495/2GSB

**Speech, Underwater**  
NTIS/PS-75/773/2GSB

**Spoil, Coal mines**  
NTIS/PS-75/112/3GSB  
NTIS/PS-76/0053/9GSB

**Sport fishing**  
NTIS/PS-75/468/9GSB

**Sprayed coatings, Plasma flame sprayed**  
NTIS/PS-76/0047/1GSB  
NTIS/PS-76/0048/9GSB  
NTIS/PS-76/0049/7GSB

**Squid devices**  
NTIS/PS-75/687/4GSB

**Stack gases, Air pollution detection**  
NTIS/PS-75/828/4GSB

**Stainless steels, Corrosion**  
NTIS/PS-76/0114/9GSB

**Stainless steels, Stress corrosion**  
NTIS/PS-75/786/4GSB

**Standard reference materials**  
NTIS/PS-75/667/6GSB

**State government, Revenue sharing**  
NTIS/PS-75/840/9GSB

**Steam engines, Motor vehicles**  
NTIS/PS-75/312/9GSB

**Steam turbine blades, Corrosion**  
NTIS/PS-76/0081/0GSB  
NTIS/PS-76/0082/8GSB

**Steam turbine blades, Erosion**  
NTIS/PS-76/0081/0GSB  
NTIS/PS-76/0082/8GSB

**Steam turbines, Corrosion**  
NTIS/PS-76/0087/7GSB  
NTIS/PS-76/0088/5GSB

**Steam turbines, Erosion**  
NTIS/PS-76/0087/7GSB  
NTIS/PS-76/0088/5GSB

**Steel, Powder metallurgy**  
NTIS/PS-75/709/6GSB

**Steels, Casting**  
NTIS/PS-76/0142/0GSB

**Steels, Chemical Analysis**  
NTIS/PS-75/289/9GSB

**Steels, Hydrogen embrittlement**  
NTIS/PS-75/749/2GSB

**Steels, Stress corrosion**  
NTIS/PS-75/785/6GSB

**Stochastic control**  
NTIS/PS-75/503/3GSB  
NTIS/PS-75/504/1GSB

**Storage batteries, Lead cells**  
NTIS/PS-75/472/1GSB

**Storage batteries, Lithium cells**  
NTIS/PS-75/471/3GSB

**Storage batteries, Nickel cadmium cells**  
NTIS/PS-75/445/7GSB

**Storage batteries, Silver cells**  
NTIS/PS-75/649/4GSB

**Storage, Records**  
NTIS/PS-76/0075/2GSB

**Strategic weapons, Control**  
NTIS/PS-75/393/9GSB

**Stratosphere, Ozone**  
NTIS/PS-76/0029/9GSB

**Streams, Sediment transport**  
NTIS/PS-75/848/2GSB



- Stress analysis, Cracks**  
NTIS/PS-75/466/3GSB  
NTIS/PS-75/467/1GSB
- Stress, Cold weather**  
NTIS/PS-75/170/1GSB
- Stress corrosion, Stainless steels**  
NTIS/PS-75/786/4GSB
- Stress corrosion, Steels**  
NTIS/PS-75/785/6GSB
- Stresses, Cracks**  
NTIS/PS-75/465/5GSB
- Stress(Physiology), Diving**  
NTIS/PS-75/278/2GSB
- Stress(Physiology), Pilots**  
NTIS/PS-75/890/4GSB
- Stress(Physiology), Sonic boom**  
NTIS/PS-76/0177/6GSB
- Stress(Psychology), Pilots**  
NTIS/PS-75/890/4GSB
- Strip mining**  
NTIS/PS-75/751/8GSB
- Strip transmission lines**  
NTIS/PS-75/239/4GSB
- Structural analysis, Computer programs**  
NTIS/PS-75/428/3GSB
- Structural analysis, Finite element analysis**  
NTIS/PS-75/496/0GSB
- Structural analysis, Sonic boom**  
NTIS/PS-76/0176/8GSB
- Structural analysis, Wind pressure**  
NTIS/PS-75/870/6GSB  
NTIS/PS-75/871/4GSB
- Structural design, Computer programs**  
NTIS/PS-75/428/3GSB
- Structural engineering, Permafrost**  
NTIS/PS-76/0070/3GSB
- Structural geology**  
COM-73-11802/8GSB
- Structured programming**  
NTIS/PS-75/501/7GSB
- Structures, Earthquake engineering**  
NTIS/PS-75/632/0GSB  
NTIS/PS-75/633/8GSB
- Students, Emotions**  
NTIS/PS-75/232/9GSB
- Students, Teacher interactions**  
NTIS/PS-76/0105/7GSB
- Subways, BART and Metro**  
NTIS/PS-75/421/8GSB
- Sulfur dioxide, Air pollution control**  
NTIS/PS-75/455/6GSB  
NTIS/PS-75/456/4GSB
- Sulfur dioxide, Scrubbers**  
NTIS/PS-76/0050/5GSB  
NTIS/PS-76/0051/3GSB  
NTIS/PS-76/0052/1GSB
- Superalloys**  
NTIS/PS-76/0107/3GSB  
NTIS/PS-76/0108/1GSB  
NTIS/PS-76/0109/9GSB
- Supercavitation, Marine propellers**  
NTIS/PS-76/0168/5GSB
- Superconducting Magnets**  
NTIS/PS-75/636/1GSB
- Superconducting quantum interference device**  
NTIS/PS-75/687/4GSB
- Superconductivity, Electromagnets**  
NTIS/PS-75/636/1GSB
- Superconductors, Electromagnets**  
NTIS/PS-75/636/1GSB
- Superconductors, Josephson junctions**  
NTIS/PS-75/590/0GSB
- Superconductors, Squid devices**  
NTIS/PS-75/687/4GSB
- Superports**  
NTIS/PS-75/510/8GSB
- Supersonic aircraft, Ozone chemistry**  
NTIS/PS-76/0029/9GSB
- Supersonic aircraft, Sonic boom**  
NTIS/PS-76/0175/0GSB  
NTIS/PS-76/0176/8GSB
- Supersonic transport, Aircraft exhaust**  
NTIS/PS-75/491/1GSB
- Supertankers**  
NTIS/PS-75/510/8GSB
- Suppressors, Electronics**  
NTIS/PS-76/0119/8GSB
- Surface chemistry, Electrochemistry**  
NTIS/PS-75/644/5GSB
- Surface effect ships, Ground effect**  
NTIS/PS-75/332/7GSB
- Surface effect vehicles, Ground effect**  
NTIS/PS-75/333/5GSB  
NTIS/PS-75/334/3GSB
- Surface water runoff, Urban areas**  
NTIS/PS-75/602/3GSB  
NTIS/PS-75/603/1GSB
- Surface waves, Acoustic waves**  
NTIS/PS-75/248/5GSB  
NTIS/PS-75/249/3GSB
- Surfactants, Cleaning agents**  
NTIS/PS-76/0110/7GSB
- Suspension systems(Vehicles), Magnetic**  
NTIS/PS-76/0094/3GSB
- Swamps, Salt marshes**  
NTIS/PS-75/426/7GSB
- Swimming, Recreation**  
NTIS/PS-76/0138/8GSB
- Switching circuits, Design**  
NTIS/PS-76/0089/3GSB  
NTIS/PS-76/0090/1GSB
- Symbolic programming, Computation**  
NTIS/PS-76/0121/4GSB
- Syntactic analysis, Natural language**  
NTIS/PS-75/864/9GSB
- Synthesis(Chemistry), Carboranes**  
NTIS/PS-75/597/5GSB
- Synthesis(Chemistry), Silicone resins**  
NTIS/PS-76/0057/0GSB
- Synthetic foods**  
NTIS/PS-75/493/7GSB
- Synthetic fuels, Coal**  
NTIS/PS-75/385/5GSB  
NTIS/PS-75/386/3GSB
- Synthetic fuels, Solid wastes**  
NTIS/PS-75/655/1GSB
- Syphilis**  
NTIS/PS-75/777/3GSB
- Takeoff, Aircraft noise**  
NTIS/PS-75/762/5GSB
- Tanker ships, Supertankers**  
NTIS/PS-75/510/8GSB
- Taste, Food**  
NTIS/PS-75/734/4GSB
- Taxation, Urban planning**  
NTIS/PS-75/199/0GSB
- Taxes, Housing**  
NTIS/PS-75/203/0GSB
- Taxes, United States**  
NTIS/PS-75/867/2GSB
- Taxes, Urban planning**  
NTIS/PS-75/202/2GSB
- Teacher pupil interactions**  
NTIS/PS-76/0105/7GSB
- Teaching methods, Individualized**  
NTIS/PS-76/0017/4GSB
- Technology assessment**  
NTIS/PS-75/494/5GSB
- Technology transfer, Theories**  
NTIS/PS-75/884/7GSB
- Tectonics, Structural geology**  
COM-73-11802/8GSB  
NTIS/PS-76/0091/9GSB  
NTIS/PS-76/0092/7GSB
- Teflon(Trademark)**  
NTIS/PS-75/353/3GSB
- Telecommunication, Economic analysis**  
NTIS/PS-75/400/2GSB
- Telecommunication, Mobile equipment**  
NTIS/PS-75/546/2GSB
- Telecommunications, Frequency allocations**  
NTIS/PS-76/0054/7GSB
- Telecommunications, Medicine**  
NTIS/PS-75/580/1GSB
- Telecommunications, Microwave communication**  
NTIS/PS-75/250/1GSB



<b>Telecommunications, Telephone systems</b> NTIS/PS-75/516/5GSB	<b>Thermionic conversion</b> NTIS/PS-75/372/3GSB	<b>Toxicity, Mercury</b> NTIS/PS-75/210/5GSB
<b>Telecommunications, Underground mines</b> NTIS/PS-75/563/7GSB	<b>Thermionic converters</b> NTIS/PS-75/372/3GSB	<b>Toxicity, Nitrogen oxides</b> NTIS/PS-75/610/6GSB
<b>Teleconsultation, Hospitals</b> NTIS/PS-76/0016/6GSB	<b>Thermionics</b> NTIS/PS-75/372/3GSB	<b>Toxicity, Pesticides</b> NTIS/PS-75/756/7GSB
<b>Telemedicine</b> NTIS/PS-75/580/1GSB	<b>Thin film storage devices, Magnetic films</b> NTIS/PS-75/686/6GSB	<b>Toxicology, Halohydrocarbons</b> NTIS/PS-75/387/1GSB
<b>Telemetry, Biotelemetry</b> NTIS/PS-75/855/7GSB	<b>Thin films, Chemical vapor deposition</b> NTIS/PS-75/477/0GSB	<b>Toxicology, Warfare agents</b> NTIS/PS-75/834/2GSB
<b>Telephone systems</b> NTIS/PS-75/516/5GSB	<b>Thrust bearings</b> NTIS/PS-75/802/9GSB	<b>Tracer studies, Air pollution</b> NTIS/PS-76/0144/6GSB
<b>Television broadcasting, Educational TV</b> NTIS/PS-76/0016/6GSB	<b>Ticks, Disease vectors</b> NTIS/PS-75/360/8GSB NTIS/PS-75/361/6GSB	<b>Tracked air cushion vehicles, Suspension</b> NTIS/PS-76/0094/3GSB
<b>Television systems</b> NTIS/PS-76/0016/6GSB	<b>Tidal waves, Earthquakes</b> NTIS/PS-75/810/2GSB	<b>Tractors, Construction equipment</b> NTIS/PS-75/391/3GSB
<b>Television systems, Cable television</b> NTIS/PS-75/404/4GSB	<b>TIG welding</b> NTIS/PS-75/764/1GSB	<b>Traffic control, Motor vehicles</b> NTIS/PS-75/403/6GSB
<b>Television transmission, Rural areas</b> NTIS/PS-76/0016/6GSB	<b>Time, Cargo transportation</b> NTIS/PS-76/0010/9GSB	<b>Traffic reduction, Car pools</b> NTIS/PS-75/854/0GSB
<b>Terminal flight facilities, Queuing</b> NTIS/PS-75/521/5GSB	<b>Time series analysis, Forecasting</b> NTIS/PS-76/0031/5GSB	<b>Trafficability, Snow</b> NTIS/PS-75/719/5GSB
	<b>Time standards</b> NTIS/PS-75/765/8GSB	<b>Training, Adaptive systems</b> NTIS/PS-76/0017/4GSB
	<b>Tires, Wear-skidding-testing-safety</b> NTIS/PS-75/533/0GSB	<b>Training programs, Audiovisual education</b> NTIS/PS-75/685/8GSB
<b>Test equipment, Drilling</b> NTIS/PS-75/725/2GSB	<b>Tissue adhesives, Acrylic resins</b> NTIS/PS-75/440/8GSB	<b>Training, Simulators</b> NTIS/PS-75/335/0GSB
	<b>Tissue adhesives, Cyanoacrylates</b> NTIS/PS-75/440/8GSB	<b>Tranquilizers, Pharmacology</b> NTIS/PS-75/489/5GSB
	<b>Tissue compatible materials</b> NTIS/PS-75/487/9GSB NTIS/PS-75/488/7GSB	<b>Transfer of Technology, Methodology</b> NTIS/PS-75/884/7GSB
<b>Textile industry, Waste treatment</b> NTIS/PS-75/729/4GSB	<b>Titanium alloys, Creep</b> NTIS/PS-75/538/9GSB	<b>Transferred electron devices</b> NTIS/PS-75/275/8GSB
<b>Textiles, Fire resistant textiles</b> NTIS/PS-75/757/5GSB	<b>Titanium, Creep</b> NTIS/PS-75/538/9GSB	<b>Transients, Protection</b> NTIS/PS-76/0119/8GSB
<b>Thermal batteries, Lithium cells</b> NTIS/PS-75/471/3GSB	<b>Titanium, Powder metallurgy</b> NTIS/PS-75/766/6GSB	<b>Transistor amplifiers</b> NTIS/PS-75/288/1GSB
<b>Thermal control, Heat pipes</b> NTIS/PS-75/316/0GSB NTIS/PS-75/317/8GSB	<b>Tools, Drilling</b> NTIS/PS-75/725/2GSB	<b>Translations, Machine translations</b> NTIS/PS-75/411/9GSB
<b>Thermal pollution control, Cooling towers</b> NTIS/PS-75/549/6GSB	<b>Tools, Underwater</b> NTIS/PS-75/775/7GSB	<b>Transmitter receivers, Portable radio</b> NTIS/PS-75/547/0GSB
<b>Thermal pollution, Ecology</b> NTIS/PS-76/0128/9GSB NTIS/PS-76/0129/7GSB	<b>Total energy systems</b> NTIS/PS-75/215/4GSB	<b>Transparent armor</b> NTIS/PS-75/136/2GSB NTIS/PS-76/0106/5GSB
<b>Thermal pollution, Hydrology</b> NTIS/PS-76/0130/5GSB	<b>Tourism, United States</b> NTIS/PS-75/148/7GSB	<b>Transplantation, Immunology</b> NTIS/PS-75/799/7GSB
<b>Thermal pollution, Water pollution</b> NTIS/PS-76/0127/1GSB	<b>Toxic agent alarms</b> NTIS/PS-75/832/6GSB	<b>Transportation, Buses</b> NTIS/PS-75/705/4GSB
<b>Thermal reactors, Automobiles</b> NTIS/PS-75/311/1GSB	<b>Toxicity, Beryllium</b> NTIS/PS-75/772/4GSB	<b>Transportation, Demand needs of users</b> NTIS/PS-76/0044/8GSB
	<b>Toxicity, Lead(Metal)</b> NTIS/PS-76/0097/6GSB	<b>Transportation, Demands needs</b> NTIS/PS-76/0045/5GSB NTIS/PS-76/0046/3GSB



<b>Transportation, Dial-a-ride</b> NTIS/PS-75/665/0GSB	<b>Trematoda, Schistosoma</b> NTIS/PS-75/344/2GSB	<b>Underwater mining</b> NTIS/PS-75/392/1GSB
<b>Transportation, Display systems</b> NTIS/PS-75/791/4GSB	<b>Tropospheric scatter communications</b> NTIS/PS-75/459/8GSB	<b>Unemployment, Youth programs</b> NTIS/PS-75/650/2GSB
<b>Transportation, Dual mode</b> NTIS/PS-75/287/3GSB	<b>Truth in advertising</b> NTIS/PS-76/0030/7GSB	<b>United States, History</b> NTIS/PS-76/0061/2GSB
<b>Transportation, Elderly</b> NTIS/PS-75/548/8GSB NTIS/PS-75/575/1GSB	<b>Tsunamis</b> NTIS/PS-75/810/2GSB	<b>Unskilled workers, Migrant workers</b> NTIS/PS-75/240/2GSB
<b>Transportation, Electric automobiles</b> NTIS/PS-75/490/3GSB	<b>Tungsten arc welding</b> NTIS/PS-75/764/1GSB	<b>Uranium mining, Radiation hazards</b> NTIS/PS-75/565/2GSB
<b>Transportation, Energy conservation</b> NTIS/PS-75/214/7GSB	<b>Tunnel construction, Excavation</b> NTIS/PS-75/550/4GSB	<b>Urban areas, Air pollution monitoring</b> NTIS/PS-75/529/8GSB
<b>Transportation, Fuel consumption</b> NTIS/PS-75/342/6GSB	<b>Tunneling machines</b> NTIS/PS-75/550/4GSB	<b>Urban areas, Land use</b> NTIS/PS-75/656/9GSB
<b>Transportation, Handicapped</b> NTIS/PS-75/575/1GSB	<b>Turbines, Cavitation</b> NTIS/PS-76/0167/7GSB	<b>Urban areas, Quality of life</b> NTIS/PS-75/570/2GSB
<b>Transportation, Hazardous materials</b> NTIS/PS-75/286/5GSB	<b>Turbines, Erosion and corrosion</b> NTIS/PS-76/0087/7GSB NTIS/PS-76/0088/5GSB	<b>Urban hydrology</b> NTIS/PS-75/602/3GSB NTIS/PS-75/603/1GSB
<b>Transportation, Hydrogen</b> NTIS/PS-75/379/8GSB	<b>Turbomachinery, Cascade flow</b> NTIS/PS-75/877/1GSB NTIS/PS-75/878/9GSB	<b>Urban information systems, Municipalities</b> NTIS/PS-75/623/9GSB NTIS/PS-75/624/7GSB
<b>Transportation, Law enforcement</b> NTIS/PS-75/732/8GSB	<b>Turbulent boundary layer, Flow separation</b> NTIS/PS-75/814/4GSB NTIS/PS-75/815/1GSB	<b>Urban planning, Air pollution</b> NTIS/PS-75/545/4GSB
<b>Transportation management, Rail freight</b> NTIS/PS-76/0169/3GSB	<b>Ultrasonic holography</b> NTIS/PS-75/432/5GSB	<b>Urban planning, Bus transportation</b> NTIS/PS-75/706/2GSB
<b>Transportation management, Railroads</b> NTIS/PS-76/0170/1GSB NTIS/PS-76/0171/9GSB	<b>Ultrasonic holography, Diagnosis</b> NTIS/PS-75/175/0GSB	<b>Urban planning, Citizen participation</b> NTIS/PS-75/216/2GSB NTIS/PS-75/696/5GSB
<b>Transportation models, Network flows</b> NTIS/PS-75/694/0GSB	<b>Ultrasonic welding</b> NTIS/PS-75/244/4GSB	<b>Urban planning, Financing</b> NTIS/PS-75/199/0GSB
<b>Transportation, Public opinion</b> NTIS/PS-76/0153/7GSB	<b>Ultrasonics, Diagnosis</b> NTIS/PS-75/175/0GSB	<b>Urban planning, Flood control</b> NTIS/PS-75/552/0GSB
<b>Transportation safety, Bicycles</b> NTIS/PS-75/787/2GSB	<b>Ultrasonics, Inspection</b> NTIS/PS-75/270/9GSB NTIS/PS-75/271/7GSB	<b>Urban planning, Ghettoes</b> NTIS/PS-75/721/1GSB
<b>Transportation safety, Collision avoidance</b> NTIS/PS-75/671/8GSB	<b>Ultrasonics, Manufacturing methods</b> NTIS/PS-75/244/4GSB	<b>Urban planning, Housing</b> NTIS/PS-75/203/0GSB NTIS/PS-75/654/4GSB
<b>Transportation, Travel habits patterns</b> NTIS/PS-76/0025/7GSB NTIS/PS-76/0026/5GSB	<b>Ultrasound, Diagnosis</b> NTIS/PS-75/175/0GSB	<b>Urban planning, Mass communication</b> NTIS/PS-75/653/6GSB
<b>Transportation, Travel time</b> NTIS/PS-76/0002/6GSB NTIS/PS-76/0010/9GSB	<b>Ultraviolet lasers</b> NTIS/PS-75/738/5GSB	<b>Urban planning, Noise pollution</b> NTIS/PS-75/544/7GSB
<b>Transportation, Buses</b> NTIS/PS-75/706/2GSB	<b>Underground supporting, Tunneling</b> NTIS/PS-75/550/4GSB	<b>Urban planning, Noise pollution control</b> NTIS/PS-75/444/0GSB
<b>Travel habits</b> NTIS/PS-76/0025/7GSB NTIS/PS-76/0026/5GSB	<b>Underwater clothing, Diving</b> NTIS/PS-75/775/7GSB	<b>Urban planning, Pollution taxation</b> NTIS/PS-75/202/2GSB
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